

BINDING LIST MAY 1 1924.

187550
165-24

THE JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Index of Volumes I to XX, Inclusive

- Abel, J. J. On the action of drugs and the function of the anterior lymph hearts in cardiectomized frogs. 1911-12, **3**, 581.
- , and Barbour, H. G. Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the central nervous system. 1910-11, **2**, 167.
- , and Barbour, H. G. Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the central nervous system. (Proceedings) 1910-11, **2**, 404.
- , and Kubota, Seiko. On the presence of histamine (β -iminazoly-ethylamine) in the hypophysis cerebri and other tissues of the body and its occurrence among the hydrolytic decomposition products of proteins. 1919, **13**, 243, and (Proceedings) 1919, **13**, 509.
- , and Macht, D. I. Histamine and pituitary extract. 1920, **14**, 279.
- , and Macht, D. I. Two crystalline pharmacological agents obtained from the tropical toad, *Bufo agas*. 1911-12, **3**, 319.
- , and Nagayama, T. On the presence of histamine in extracts of the posterior lobe of the pituitary gland and on preliminary experiments with the pressor constituent. 1920, **15**, 347.
- , and Rouiller, C. A. Evaluation of the hormone of the infundibulum of the pituitary gland in terms of histamine, with experiments on the action of repeated injections of the hormone on the blood pressure. 1923, **20**, 65.
- , and Rowntree, L. G. Further data relating to the use of antimony-thioglycollic acid compounds in the treatment of experimental trypanosomiasis. (Proceedings) 1910-11, **2**, 396.
- , and Rowntree, L. G. Further data relating to the use of certain antimonial compounds in the treatment of experimental trypanosomiasis. 1910-11, **2**, 501.
- , and Rowntree, L. G. On the behavior of certain arsenical, antimony and other compounds in the treatment of experimental nagana. (Proceedings) 1910, **1**, 577.
- , and Rowntree, L. G. On the efficacy of antimony-thioglycollic acid compounds in the treatment of experimental trypanosomiasis. 1910-11, **2**, 101.

- Adenine, Can it acquire antineuritic properties? Voegtlin and White. 1917, **9**, 155.
- mononucleotide. Jones and Kennedy. 1919, **12**, 253.
- mononucleotide. Jones and Kennedy. 1919, **13**, 45.
- Adler, I. Some reactions of blood vessels to certain chemicals. 1916, **8**, 297.
- , and Alsberg, C. L. Studies upon the long-continued administration of adrenaline and nicotine. (Proceedings) 1912-13, **4**, 353.
- Adrenal glands against the pancreas, The antagonism of the. Edmunds. 1910, **1**, 135.
- , glands, Influence of arsphenamine and neoarsphenamine on the epinephrine content of the. Lucke, Kolmer and McCouch. 1923, **20**, 153.
- glands, The importance of, in the action of pilocarpine, physostigmine and strychnine. Edmunds. 1923, **20**, 405.
- glands, The liberation of epinephrine from the, by stimulation of the splanchnic nerves and by massage. Stewart, Rogoff and Gibson. 1916, **8**, 205.
- glands, The pulmonary action of the. Jackson. 1912-13, **4**, 59.
- secretion, Note on the effect of nicotine injection on. Cannon, Aub and Binger. 1911-12, **3**, 379.
- , The effects of unilateral excision of the, section of the splanchnic nerve and section of the renal nerves on the secretion of the kidney. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- Adrenalectomised frogs, The toxicity of the blood of. Kellaway. 1921, **18**, 399.
- Adrenaline, Action of, on the pulmonary vessels. Wiggers. 1910, **1**, 341.
- , Action of, on the spleen. Hartman and Lang. 1919, **13**, 417.
- , Effect of extracts of pancreas and liver and, on blood dextrose. Ross and Davis. 1923, **20**, 121.
- , Efficacy of, by rectum. Hoskins. (Proceedings) 1921, **17**, 347.
- , Experimental criticism of recent results in testing. Schultz. 1910, **1**, 291.
- hyperglycemia, A note on, in man. Ulrich and Rypins. 1922, **19**, 215.
- , Influence of intravenous injections of sparteine and, on the heart of the dog. Strickler and Fleisher. 1910-11, **2**, 55.
- , Perfusion of the medulla of the terrapin (*Pseudomys troosti*) with. Heinekamp. 1922, **19**, 131.
- , pilocarpine and atropine, A note on the action of, upon the tonus waves in the terrapin heart. III. Gruber. 1920, **15**, 23.
- , Prolonged constriction of the blood-vessels by subcutaneous injections into the ear of the rabbit of. Auer and Meltzer. (Proceedings) 1917, **9**, 358.
- , Some effects of, when injected into the respiratory tract of rabbits. Auer and Gates. (Proceedings) 1914-15, **6**, 608.
- , Studies of the long-continued administration of nicotine and. Adler and Alsberg. (Proceedings) 1912-13, **4**, 353.
- , The action of, in inhibiting the flow of pancreatic secretion. Mann and McLachlin. 1917-18, **10**, 251.
- , The action of, on the heart. I. Action on the turtle heart. Heinekamp. 1920, **14**, 17.
- , The action of, on the heart. II. Modification of the action of adrenaline by morphine. Heinekamp. 1920, **14**, 327.

- Adrenaline, The action of, on the heart. III. The modification of the action of adrenaline by chloroform. Heinekamp. 1921, **16**, 247.
- , The influence of pituitrin and, on the pupil of normal and ganglionectomized rabbits. Githens and Meltzer. (Proceedings) 1917, **9**, 360.
- , The mutually antagonistic actions of physostigmine and, upon the sphincter muscle of the iris. Joseph. (Proceedings) 1917, **9**, 358.
- , The proportion in which, distributes itself between corpuscles and serum in relation to the technique of testing for epinephrine in blood. Stewart and Rogoff. 1917, **9**, 393.
- , The reversible action of, and kindred drugs on the bronchioles. Golla and Symes. 1913-14, **5**, 87.
- , Tonus waves from the sino-auricular muscle preparation of the terrapin as affected by. Gruber and Markel. 1919, **12**, 43.
- , Tonus waves in the terrapin auricles as affected by pilocarpine, atropine and and. Gruber and Markel. 1919, **12**, 53.
- vasodilator mechanisms, Location of. Hartman. (Proceedings) 1918, **11**, 186.
- Adrenals, Action of certain drugs on the output of epinephrine from the. Stewart and Rogoff. (Proceedings) 1919, **13**, 513.
- , Further observations on ether hyperglycemia in the absence of the. Stewart and Rogoff. (Proceedings) 1920, **15**, 238.
- , Further study of the relation of the, to pancreatic activity. Edmunds. 1910-11, **2**, 559.
- , Influence of the, on the kidneys. Marshall and Davis. 1916, **8**, 525.
- , Quantitative experiments on the liberation of epinephrine from the, after section of their nerves, with special reference to the question of the indispensability of epinephrine for the organism. Stewart and Rogoff. 1917-18, **10**, 1.
- , Spontaneous liberation of epinephrine from the. Stewart and Rogoff. 1916, **8**, 479.
- , The action of drugs upon the output of epinephrine from the. I. Strychnine. Stewart and Rogoff. 1919, **13**, 95.
- , The action of drugs on the output of epinephrine from the. II. Concentrated salt solutions (sodium carbonate) injected into the circulation. Stewart and Rogoff. 1919, **13**, 167.
- , The action of drugs on the output of epinephrine from the. III. Nicotine. Stewart and Rogoff. 1919, **13**, 183.
- , The action of drugs on the output of epinephrine from the. IV. Strophanthine. Stewart and Rogoff. 1919, **13**, 361.
- , The action of drugs on the output of epinephrine from the. V. Curara. Stewart and Rogoff. 1920, **14**, 343.
- , The action of drugs on the output of epinephrine from the. VI. Atropine; pilocarpine. Stewart and Rogoff. 1921, **16**, 71.
- , The action of drugs upon the output of epinephrine from the. VII. Physostigmine. Stewart and Rogoff. 1921, **17**, 227.
- , The action of drugs on the output of epinephrine from the. VIII. Morphine. Stewart and Rogoff. 1922, **19**, 59.
- , The influence of the, on the kidneys. Marshall and Davis. (Proceedings) 1916, **8**, 111.

- Adrenals, The influence of asphyxia upon the rate of liberation of epinephrine from the. Stewart and Rogoff. 1917-18, **10**, 49.
- , The influence of morphine on normal cats and on cats deprived of the greater part of the, with special reference to body temperature, pulse and respiratory frequency and blood sugar content. Stewart and Rogoff. 1922, **19**, 97.
- , The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the, with special reference to body temperature, pulse and respiratory frequency. Stewart and Rogoff. 1922, **19**, 87.
- Adrenin pulmonary edema in the rabbit. A respiratory factor in the production of. Gates and Auer. (Proceedings) 1917, **9**, 361.
- Agaricin. McCartney. 1917-18, **10**, 83.
- Agglutination of red blood cells by arsphenamine, The protective action of hydrophilic colloids on the. Biological reactions of arsphenamine. II. Oliver and Yamada. 1922, **19**, 199.
- , the immediate toxicity of arsphenamine as contrasted with its late ill effects, and the role of, in the production of the former. Biological reactions of arsphenamine. III. Oliver and Yamada. 1922, **19**, 393.
- Agglutinative action. The mechanism of arsphenamine on red blood cells in vitro. Biological reactions of arsphenamine. I. Oliver and Douglas. 1922, **19**, 187.
- Agglutinins in fungi. The distribution of haemolysins, poisons and, especially in the amanitas, the entolomas, the lactarius and the inocybes. Ford. 1910-11, **2**, 285.
- Ahlfs, Jacob, Brown E. D. and Howard, Merrill. Experiments on the toxicity of picric acid on the frog and on the rabbit. (Proceedings) 1920, **15**, 235.
- Air, On insufflation of the lungs with hydrogen, carbon dioxide and. Guthrie. (Proceedings) 1910, **1**, 576.
- , On insufflation of the lungs with carbon dioxide, hydrogen and. Guthrie, Guthrie and Ryan. 1910-11, **2**, 49.
- Akatsu, S., and Noguchi, H. On the drug-fastness of spirochaetae against certain arsenical, mercurial and iodide compounds in vitro. (Proceedings) 1917, **9**, 363.
- Albuminuria and renal function following the administration of full therapeutic doses of salicylate. Further observations on. Scott, Thoburn and Hanzlik. (Proceedings) 1917, **9**, 349.
- Albumoses, On histamine and a histamine-like substance as decomposition products of. Nagayama. 1920, **15**, 401.
- Alcohol anesthesia, Tricolor -tertiarybutyl. Rowe. 1917, **9**, 107.
- , Antagonistic studies with caffeine and. Pilcher and Sollmann. (Proceedings) 1911-12, **3**, 473.
- , On the comparative toxicity of caffeine, nicotine and. Macht and Bloom. (Proceedings) 1921, **17**, 330.
- on the respiration and the gaseous metabolism in man, Effect of. Higgins 1917, **9**, 441.
- , Perfusion of the mammalian medulla: note on the action of ethyl. Hooker. 1917-18, **10**, 121.
- , The absorption of Quantitative studies on the gastro-intestinal absorption of drugs. III. Hanzlik and Collins. 1913-14, **5**, 185

- Alcohol anesthesia, The action of, on the respiratory and vasomotor centers. Hyatt and Jensen. (Proceedings) 1918, **11**, 173.
- , The comparative concentrations of, in human blood and urine at intervals after ingestion. Miles. 1923, **20**, 265.
- , The influence of, on the composition of urine. Salant and Hinkel. 1910, **1**, 493.
- , The influence of, on the composition of urine. Salant and Hinkel. (Proceedings) 1910, **1**, 574.
- , The intestinal absorption of. Hanzlik. (Proceedings) 1912-13, **4**, 344.
- and caffeine: a study of antagonism and synergism. Pilcher. 1911-12, **3**, 267.
- Alcohols, A toxicological study of some, with especial reference to isomers. Macht. 1921, **16**, 1.
- (ethyl, methyl and "wood") and acetone, Studies of chronic intoxications on albino rats. II. Sollmann. 1921, **16**, 291.
- , Experimental inquiry into the narcotic properties of some polyhydric. Macht and Ting. (Proceedings) 1922, **19**, 252.
- , Studies in the toxicity of aliphatic. Munch and Schwartze. (Proceedings) 1922, **19**, 252.
- Aliphatic alcohols, Studies in the toxicity of. Munch and Schwartze. (Proceedings) 1922, **19**, 252.
- Alkali reserve of the blood of dogs gassed with fatal concentrations of chlorine, The effect of morphine upon the. Hjort and Taylor. 1919, **13**, 407.
- reserve of the blood of man and certain animals, The effect of morphine upon the. Gauss. 1921, **16**, 475.
- Alkalies, The effect of acids and, on renal function and pathology. MacNider. (Proceedings) 1920, **15**, 234.
- , The effect of certain oxidizing substances and acids and, on the isolated mammalian heart. Loevenhart and Eyster. 1913-14, **5**, 21.
- Alkaline hydrolysis, Effect on tadpoles of feeding thyroid products obtained by. Marine and Rogoff. 1917, **9**, 57.
- solution, The ability of an, to influence the amount of stainable lipid material that appears in the kidney following the use of a general anesthetic. Naturally nephropathic animals. MacNider. 1923, **20**, 365.
- Alkaloid in acute poisoning, A simplified method for the estimation of morphine, together with data on the distribution of the. Levine and Morgulis. (Proceedings) 1920, **15**, 240.
- Alkaloids of the benzyloquinoline group, Comparative effects of morphine and, on the cardiac muscle. Hanzlik. 1921, **17**, 445.
- , On the peripheral action of the opium. Effect on the sensory nerve terminals. Macht, Johnson and Bollinger. 1916, **8**, 451.
- , On the relation between the chemical structure of the opium, and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. I. On the relation of the chemical structure of the opium alkaloids to their action on smooth muscle. Macht 1918, **11**, 389.
- , On the relation between the chemical structure of the opium, and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. II. A pharmacological and therapeutic study of some benzyl esters. Macht. 1918, **11**, 419.

- Alkaloids, The action of hydrastis, beriberin and hydrastine, and its derivatives hydrastinine and cotarnine. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- , The effect of hydrogen ion concentration on the toxicity of, for *Paramoecium*. Crane. 1921, **18**, 319.
- Allan, William. The effect of emetine on *Entamoeba Histolytica* in stools. 1921, **16**, 21.
- Allergic reaction of inflammatory character, The influence of sodium iodoxybenzoate and sodium cyanide upon an. Amberg and Knox. 1911-12, **3**, 223.
- Allocaïn S. (a new local anesthetic) on the pharmacological action of. Kubota. 1919, **12**, 361.
- Alsberg, C. L. The hemolytic power of various plants. (Proceedings) 1912-13, **4**, 353.
- , The toxic action of *amianthium muscaetoxicum*. (Proceedings) 1911-12, **3**, 473.
- , and Adler, I. Studies upon the long-continued administration of adrenaline and nicotine. (Proceedings) 1912-13, **4**, 353.
- , and Brewster, J. F. Note on the physiological action of *Cordyceps sinensis*. 1917-18, **10**, 277.
- , and Schwartz, E. W. Pharmacological action of cadmium. (Proceedings) 1919, **13**, 504.
- , and Schwartz, E. W. Pharmacological action of gossypol. (Proceedings) 1919, **13**, 504.
- , and Schwartz, E. W. The comparative toxicity and physiological activity of cadmium and zinc. (Proceedings.) 1920, **15**, 235.
- , and Schwartz, E. W. The relation of cottonseed poisoning to gossypol. (Proceedings) 1921, **17**, 344.
- , and Smith, C. S. Studies upon the long continued feeding of saponin. (Proceedings) 1913-14, **5**, 517.
- , and Woodward, H. E. A comparison of the effect of certain saponins on the surface tension of water with their hemolytic power. 1921, **16**, 237.
- , and Woodward, H. E. Relation of the surface tension of saponin solutions to their hemolytic activity. (Proceedings) 1916, **8**, 109.
- Aluminium and beryllium, Experiments with salts of. Gies. (Proceedings) 1910-11, **2**, 403.
- salts, The effects of the prolonged feeding of. Roth and Voegtlin. (Proceedings) 1916, **8**, 132.
- Alvarez, W. C. XVI. Differences in the action of drugs on different parts of the bowel. 1919, **12**, 171.
- , The actions of drugs on different parts of the intestine. (Proceedings) 1918, **11**, 171.
- , and Taylor, F. B. Changes in the rhythmicity, irritability and tone in the purged intestine. 1917-18, **10**, 365.
- Alypine, eucaine, holocaine, novocaine and stovaine on the bladder. Waddell. 1917-18, **10**, 243.
- Amanita-hemolysin* and its antihemolysin, Mode of union between the. Ford and Rockwood. 1912-13, **4**, 235.
- , The effect of collodion on the. Ford. 1910, **1**, 269.

- Amanita*-toxin, Note on the. Ford and Bronson. 1912-13, **4**, 241.
- , Note on the. Ford and Prouty. 1910, **1**, 389.
- Amanitas*, The action of *Amanita phalloides* and other, upon the frog's heart. Ford and Brush. 1914-15, **6**, 195.
- , The distribution of poisons in the. Ford. 1910, **1**, 275.
- Amberg, Samuel, and Helmholz, H. F. Detoxifying action of sodium salts upon potassium salts on intravenous injection. (Proceedings) 1916, **8**, 120.
- , and Helmholz, H. F. The detoxifying action of sodium salt on potassium salt in the guinea pig. 1919, **12**, 19.
- , and Helmholz, H. F. The fatal dose of various substances on intravenous injection in the guinea pig. (Proceedings.) 1914-15, **6**, 595.
- , and Knox, J. H. M., Jr. The influence of sodium iodoxybenzoate and sodium cyanide upon an allergic reaction of inflammatory character. 1911-12, **3**, 223.
- , and Koelker, A. H. In regard to the detoxification of benzoic acid by optical isomers of leucin. 1910-11, **2**, 59.
- , Loevenhart, A. S., and McClure, W. B. Further studies on mustard oil inflammation. (Proceedings) 1916, **8**, 134.
- , Loevenhart, A. S., and McClure, W. B. The influence of oxygen upon inflammatory reactions. 1917-18, **10**, 209.
- , and Maver, M. E. Citric acid as a constituent of normal human urine. (Proceedings) 1919, **13**, 507.
- Amianthium muscaetoxicum*, The toxic action of. Alsberg. (Proceedings) 1911-12, **3**, 473.
- p-Amidophenol, The effect of certain drugs upon the toxicity of acetphenetidine and. Hale. (Proceedings) 1910, **1**, 575.
- Amines, The pharmacology of some. Hanzlik. (Proceedings) 1921, **17**, 327.
- Amino acids, Effect of, upon excised segments of intestine. Hirschfelder and Cantwell. (Proceedings) 1918, **11**, 178.
- , acids, The pharmacology and toxicology of copper salts of. Studies on the biochemistry and chemotherapy of tuberculosis. XVI. Huber. 1918, **11**, 303.
- p-Aminobenzoyl dinormal butyl-amino ethanol and propanol; and diethyl aminopropyl diphenyl amino-carbinol. The effects of some new local anesthetics. Bonar and Sollmann. 1921, **18**, 467.
- Amins, Urticaria by aromatic and urea derivatives and. Endermic reactions. II. Sollmann. 1917, **9**, 391.
- Ammonia, The absorption and excretion of, by the lungs. McGuigan. 1912-13, **4**, 453.
- Ammonium bases, The action of certain quarternary. Burn and Dale. 1914-15, **6**, 417.
- Amoebae, The action of certain emetine derivatives on. Pyman and Wenyon. 1917-18, **10**, 237.
- Amoebic dysentery, Experiments on the therapeutics of. Dale and Dobell. 1917-18, **10**, 399.
- dysentery, The treatment of, with chaparro armagosa (*Castela Nicholsoni* of the family Simarubaceae). Sellards and McIver. 1918, **11**, 331.
- Amyolytic power and composition of saliva, The effects of pilocarpine and atropine upon the. Ewing. 1911-12, **3**, 1.

10 PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

- Anaerobic animal tissue, The action of ether on. Mathews. 1910-11, **2**, 231.
- Analgesia, A quantitative study of the, produced by opium alkaloids, individually and in combination with each other, in normal man. Macht, Herman and Levy. 1916, **8**, 1.
- , Some observations on anesthesia and. Jackson. (Proceedings) 1916, **8**, 113.
- Anaphylactic hemorrhages. The causation of experimental, in the stomach. Auer. (Proceedings) 1922, **19**, 255.
- lung of the guinea-pig and mouse, Microscopic study of the. Physiological studies in anaphylaxis. III. Schultz and Jordan. 1910-11, **2**, 375.
- reaction of plain muscle in the guinea-pig. Dale. 1912-13, **4**, 167.
- and other reactions of plain muscle, The effect of varying tonicity on the. Dale. 1912-13, **4**, 517.
- shock, Anaphylatoxin, and the chemical theory of. Weil. (Proceedings) 1916, **8**, 112.
- shock, A comparison of the prophylactic effects of atropine and epinephrine in, and anaphylactoid phenomena from various colloids and arsphenamine. Hanzlik and Karsner. 1920, **14**, 425.
- shock in the dog, A study of the action of the heart in. Eisenbrey and Pearce. 1912-13, **4**, 21.
- shock, The liver in its relation to. Voegtlin and Bernheim. 1910-11, **2**, 507.
- Anaphylactoid phenomena. Hanzlik and Karsner. (Proceedings) 1920, **15**, 246.
- phenomena, Effects of various colloids and other agents which produce, on bronchi of perfused lungs. Hanzlik and Karsner. 1920, **14**, 449.
- phenomena, Effects of various colloids and other agents which produce, on surviving intestine and uterus. Hanzlik. 1920, **14**, 463.
- phenomena from the intravenous administration of various colloids, arsenicals and other agents. Hanzlik and Karsner. 1920, **14**, 379.
- phenomena from thromboplastic agents. Hanzlik, Karsner and Fetterman. 1920, **14**, 220.
- phenomena from various colloids and arsphenamine, A comparison of the prophylactic effects of atropine and anaphylactic shock and. Hanzlik and Karsner. 1920, **14**, 425.
- symptoms, Hemagglutination in vitro by agents which produce. Hanzlik and Karsner. 1920, **14**, 479.
- symptoms, Hemagglutination in vitro by agents which produce. Karsner and Hanzlik. (Proceedings) 1920, **15**, 247.
- Anaphylatoxin, and the chemical theory of anaphylactic shock. Weil. (Proceedings) 1916, **8**, 112.
- Anaphylaxis, in the cat and opossum. Edmunds. (Proceedings) 1913-14, **5**, 518.
- in the dog, Experimental observations on. Pelz and Jackson. (Proceedings) 1918, **11**, 173.
- Physiological studies in. I. The reaction of smooth muscle of the guinea-pig sensitized with horse serum. Schultz. 1910, **1**, 549.
- , Physiological studies in. II. Reaction of smooth muscle from guinea-pigs rendered tolerant to large doses of serum. Schultz. 1910-11, **2**, 221.

- Anaphylaxis, Physiological studies in. III. A microscopic study of the anaphylactic lung of the guinea-pig and mouse. Schultz and Jordan. 1910-11, **2**, 375.
- , Physiological studies in. IV. Reaction of the cat toward horse serum. Schultz. 1911-12, **3**, 299.
- , The effect of the digitalis group including, upon some skeletal muscles in rabbits, especially with regard to rigor. Auer. (Proceedings) 1911-12, **3**, 464.
- Anastomosis between the portal vein and the inferior vena cava (Eck's fistula). Bernheim, Homans and Voegtlin. 1910, **1**, 463.
- Anderson, D. D., and Brown, E. D. The acidity of some plants due to a mechanical action. (Proceedings) 1918, **11**, 177.
- , and Brown, E. D. The acidity of some plants due to a mechanical action. 1919, **12**, 37.
- Andrus, E. C., and Snyder, C. D. On the relation between tonus and smooth muscle in the terrapin heart. 1920, **14**, 1.
- Anemia, The modifying influence of, on the actions of some well-known drugs. Wiggers. (Proceedings) 1910-11, **2**, 395.
- Anesthesia by the intracerebral injection of magnesium chloride. Henderson. 1910, **1**, 199.
- in plants possessing a motor mechanism and in animals, Comparison of. Crile and Menten. (Proceedings) 1911-12, **3**, 467.
- , Mode of action of anesthetics in producing. Burge. (Proceedings) 1918, **11**, 174.
- , Some observations on analgesia and. Jackson. (Proceedings) 1916, **8**, 113.
- , The irritability of motor nerves in chloroform. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
- , The nature of the cessation of respiration in deep ether. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
- , Trichlor-tertiarybutyl alcohol. Rowe. 1917, **9**, 107.
- Anesthetic action of saligenin and other phenyl carbinols, The local. Hirschfelder, Lundholm and Norrgard. (Proceedings) 1920, **15**, 237.
- actions of saligenin and other phenyl carbinols, The local. Hirschfelder, Lundholm and Norrgard. 1920, **15**, 261.
- , A pharmacological and therapeutic study of benzyl alcohol as a local. Macht. 1918, **11**, 263.
- , A study of the action of various diuretics in uranium nephritis, with special reference to the part played by the, in determining the efficiency of the diuretic. MacNider. 1912-13, **4**, 491.
- , Benzyl alcohol as a spinal. Voegtlin and Livingston. (Proceedings) 1919, **13**, 513.
- , Benzylcarbinol, a local. Hjort and Eagan. 1920, **14**, 211.
- and convulsant effects of gasoline vapor. Haggard. 1921, **16**, 401.
- efficiency for mucous membranes, Benzyl alcohol: its. Sollmann. 1919, **13**, 355.
- , On the pharmacological action of Allocain S., a new local. Kubota. 1919, **12**, 361.
- properties of phenyl methyl carbinol, The local. Hjort and Kaufmann. 1920, **15**, 129.

- Anesthetic tension of ether vapor, Further observations on. Boothby. (Proceedings) 1916, **8**, 115.
- tension of ether vapor in man, The determination of the. Boothby. 1913-14, **5**, 379.
- tension of ether vapor in man, with some theoretical deductions as to the mode of action of the common volatile anesthetics. Boothby. (Proceedings) 1913-14, **5**, 525.
- , The ability of an alkaline solution to influence the amount of stainable lipid material that appears in the kidney following the use of a general. Naturally nephropathic animals. MacNider. 1923, **20**, 365.
- Anesthetics. Action of local, on striated muscle. Macht and Kubota. (Proceedings) 1919, **13**, 507.
- , A further contribution to the pharmacology of the local. Eggleston and Hatcher. 1919, **13**, 433.
- , A preliminary paper on the relation between the amount of stainable lipid material in the renal epithelium and the susceptibility of the kidney to the toxic effect of the general. MacNider. 1921, **17**, 289.
- , A study of local, in respect to their antiseptic properties. Macht and Satani. (Proceedings) 1920, **15**, 244.
- , A study of the anurias occurring in normal animals during the use of the general. MacNider. 1920, **15**, 249.
- , Comparative activity of local. I. Paralysis of motor nerve fibers. Direct application to the sciatic nerve of the frog. Sollmann. 1917-18, **10**, 379.
- , Comparative activity of local. II. Paralysis of sensory nerve fibers. Sollmann. 1918, **11**, 1.
- , Comparison of activity of local. III. Anesthesia of frog-skin. Sollmann. 1918, **11**, 9.
- , Comparison of activity of local. IV. Anesthesia of rabbit's cornea. Sollmann. 1918, **11**, 17.
- , Comparative efficiency of local. V. Anesthesia of the human skin. General conclusions. Sollmann. 1918, **11**, 69.
- , Comparative activity of local. VI. Difficultly soluble anesthetics on mucous membranes. Sollmann. 1919, **13**, 429.
- , Comparative toxicity of local, and of antipyretics for earthworms. Sollmann. 1920, **14**, 319.
- , Concerning the action of local, on striated muscle. Kubota and Macht. 1919, **13**, 31.
- , Do local, precipitate proteins? Sollmann. 1920, **14**, 135.
- , Mode of action of, in producing anesthesia. Burge. (Proceedings) 1918, **11**, 174.
- , On the absorption of local, through the genito-urinary organs. Macht. 1921, **16**, 435.
- , The comparative absorbability of local, from the urethra. Sollmann. 1918, **11**, 159.
- , The determination of the anesthetic tension of the ether vapor in man with some theoretical deductions as to the mode of action of the common volatile. Boothby. (Proceedings) 1913-14, **5**, 525.
- , The effect of, on the output of urine in uranium nephritis. MacNider. (Proceedings) 1912-13, **4**, 348.

- Anesthetics, The effects of some new local (Para-aminobenzoyl dinormal butyl-amino ethanol and propanol; and diethyl amino-propyl diphenyl amino-carbinol.) Bonar and Sollmann. 1921, **18**, 467.
- , The inhibition of the toxicity of, for the nephropathic kidney. MacNider. (Proceedings) 1916, **8**, 116.
- Aniline dyes, The toxicity of martius yellow and some other, and the entrance of dyes into cells. Mathews and Longfellow. 1910-11, **2**, 201.
- Antagonism, Quantitative observations on. Cushny. 1914-15, **6**, 439.
- Anthelmintic action of benzyl alcohol and benzyl esters, On the. Macht. 1920, **14**, 323.
- value, Investigations on the composition of oil of chenopodium and the, of some of its components. Hall and Hamilton. 1918, **11**, 231.
- Anthelmintics: their efficiency as tested on earthworms. Sollmann. 1919, **12**, 129.
- Antihaemölysin, Mode of union between the amanita-haemolysin and its. Ford and Rockwood. 1912-13, **4**, 235.
- Antimonial compounds in the treatment of experimental trypanosomiasis, Further data relating to the use of certain. Rowntree and Abel. 1910-11, **2**, 501.
- Antimony compounds, The trypanocidal action of. Quantitative studies in chemotherapy. I. Voegtlin and Smith. 1920, **15**, 453.
- , On the behavior of certain arsenicals, other compounds and, in the treatment of experimental nagana. Abel and Rowntree. (Proceedings) 1910, **1**, 577.
- , The chemotherapy of, Comparison of the antimonyl tartrates with the organic compounds of antimony. Fargher and Gray. 1921, **18**, 341.
- thioglycollic acid compounds in the treatment of experimental trypanosomiasis, Further data relating to the use of. Rowntree and Abel. (Proceedings) 1910-11, **2**, 396.
- thioglycollic acid compounds in the treatment of experimental trypanosomiasis, On the efficacy of. Rowntree and Abel. 1910-11, **2**, 101.
- Antimonyl tartrates, Comparison of, with the organic compounds of antimony. The chemotherapy of antimony. Fargher and Gray. 1921, **18**, 341.
- Antineuritic properties, Adenine, can it acquire? Voegtlin and White. 1917, **9**, 155.
- vitamine, A comparison of the influence of secretine and the, on pancreatic secretion and bile flow. Voegtlin and Myers. 1919, **13**, 301.
- Antipyretic drug action, The relation of the dextrose and water content of the blood to. Barbour and Herrmann. 1921, **18**, 165.
- Antipyretics. Acetyl salicylic acid and heat regulation in febrile cases. Barbour. (Proceedings) 1919, **13**, 500.
- , Acetyl salicylic acid and heat regulation in normal individuals. Barbour and Devenis. (Proceedings) 1919, **13**, 499.
- , Comparative toxicity of local anesthetics and, for earthworms. Sollmann. 1920, **14**, 319.
- , Effect of some, on the behavior of rats in the circular maze. Macht and Bloom. 1921, **17**, 21.
- on catalase production, The effect of pyretics and. Burge. 1920, **14**, 121.

- Antipyretics, The effect of some, on the acuity of hearing. Macht, Greenberg and Isaacs. 1920, **15**, 149.
- , The non-dependence of the protein quotient in the blood-serum upon the rapidity of the metabolism with especial reference to the non-effect of sodium cacodylate, thyroid extract and. Hanson and McQuarrie. 1917-18, **10**, 261.
- Antipyrine, Paradoxical action of, in partially and completely decerebrate rabbits. II. Barbour and Deming. 1913-14, **5**, 149.
- Antiseptic action, A comparison of the, of various aromatic ethoxy and hydroxy compounds upon the pneumococcus and gonococcus. Hirschfelder and Pankow. (Proceedings) 1922, **19**, 248.
- and bactericidal action of the sodium salts of iodbenzoic, iodosobenzoic and iodoxybenzoic acids, On the. Arkin. 1911-12, **3**, 145.
- and the pharmacologic properties of meta-cresol acetate, A study of the. Greenwald. 1910-11, **2**, 513.
- properties, A study of local anesthetics in respect to their. Macht and Satani. (Proceedings) 1920, **15**, 244.
- value, On the pharmacological action and, of certain benzoic acid derivatives. Arkin and Loevenhart. (Proceedings) 1910, **1**, 569.
- Antiseptics, Notes on the toxic effects of chlorine, in dogs. Barbour and Hjort. 1921, **18**, 201.
- , The effect of subarachnoid injections of, upon the central nervous system. Wegeforth and Essick. 1919, **13**, 335.
- Antispasmodic drugs, A study of, on the bronchus. Macht and Ting. 1921, **18**, 373.
- Antitoxic action of rattlesnake serum on rattlesnake venom with a note on the percentage of total solids of the serum and bile. Welker and Marshall. 1915, **7**, 125.
- Antitoxin, The advantages of intravenous over subcutaneous or intramuscular injections and of single over multiple doses of. Park. (Proceedings) 1911-12, **3**, 474.
- Anurias, A study of the, occurring in normal animals during the use of the general anesthetics. MacNider. 1920, **15**, 249.
- Apomorphine, The seat of the emetic action of. Eggleston and Hatcher. 1911-12, **3**, 551.
- Apparatus. A new time marker. Lieb. 1917, **9**, 227.
- , An improved lever for frog's heart and muscle strips. Ryan. (Proceedings) 1917, **9**, 362.
- , A non-clotting blood pressure. Lamson. 1920, **15**, 75.
- , A signal magnet which writes either upwards or downwards. Hale. (Proceedings) 1917, **9**, 362.
- , A simple liver plethysmograph. Edmunds. (Proceedings) 1913-14, **5**, 520.
- for continuous blood pressure tracings in man. Kells. 1920, **15**, 433.
- for recording the outflow of liquids. Williams. 1910, **1**, 457.
- for the administration of gases and vapors to animals. Marshall and Kells. 1919, **12**, 385.
- for the exposure of skin or mucous membrane to the vapor of toxic substances, with observations on dichlorethylsulphide. Eyster and Maver. 1920, **15**, 95.

- Apparatus for the perfusion of isolated organs. Richards and Drinker. 1915, **7**, 467.
- for the perfusion of isolated organs especially the isolated mammalian heart. Eyster and Loevenhart. 1913-14, **5**, 57.
- Signal magnet controller. Chase and Schlomovitz. 1914-15, **6**, 561.
- , Some convenient laboratory. Crawford and Honn. 1910, **1**, 175.
- , Some new time recording. Hale. 1916, **8**, 445.
- , Time recorder for kymograph tracings. Closson. 1913-14, **5**, 235.
- Arbuthnot, T. S., Snowden, R. R., and Brooks, Clyde. A study of the excretion of repeated doses of phenolsulphonephthalein. (Proceedings) 1917, **9**, 349.
- Arkin, Aaron. On the antiseptic and bactericidal action of the sodium salts of iodbenzoic, iodosobenzoic and iodoxybenzoic acids. 1911-12, **3**, 145.
- , and Loevenhart, A. S. On the pharmacological action and antiseptic value of certain benzoic acid derivatives. (Proceedings) 1910, **1**, 569.
- Aromatic derivatives, Urticaria by amins and urea derivatives and. Sollmann. 1917, **9**, 391.
- drugs and fumes, Experimental inquiry into the sedative properties of some. Macht and Ting. 1921, **18**, 361.
- ethoxy and hydroxy compounds, A comparison of the antiseptic action of various, upon the pneumococcus and gonococcus. Hirschfelder and Pankow. (Proceedings) 1922, **19**, 248.
- Arsenic, Changes with advancing age in the resistance of the albino rat to. Hammett and Nowrey. 1922, **19**, 331.
- compounds, Quantitative pathological studies with. I. The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of arsphenamine, neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide. Hooper, Kolls and Wright. 1921, **18**, 133.
- compounds, The trypanocidal action of. Quantitative studies in chemotherapy. II. Voegtlin and Smith. 1920, **15**, 475.
- poisoning, Magnesium sulphate in. Hansen. 1921, **17**, 105.
- , The lethal dose of, for splenectomized mice. Towles. 1916, **8**, 465.
- , The relative toxicity of germanium and, for the albino rat. Hammett, Muller and Nowrey. 1922, **19**, 337.
- , The so-called habituation to: variation in the toxicity of arsenious oxide. Schwartze. 1923, **20**, 181.
- trioxid. Studies of chronic intoxications on albino rats. V. Sollmann. 1921, **18**, 43.
- Arsenical compounds, On the drugfastness of spirochaetae in vitro against mercurial, iodide and. Noguchi and Akatsu. (Proceedings) 1917, **9**, 363.
- Arsenicals, A method for the study of permeability of the meninges for. Smith and Voegtlin. (Proceedings) 1921, **17**, 342.
- , Anaphylactoid phenomena from the intravenous administration of various colloids, other agents and. Hanzlik and Karsner. 1920, **14**, 379.
- , Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of. Quantitative studies in chemotherapy. VII. Voegtlin, Dyer and Miller. 1923, **20**, 129.
- , Effect of ligation of the ureters or bile duct upon the trypanocidal action and toxicity of the. Voegtlin, Dyer and Miller. (Proceedings) 1922, **19**, 258.

- Arsenicals**, On the behavior of certain, antimony and other compounds in the treatment of experimental nagana. Abel and Rowntree. (Proceedings) 1910, **1**, 577.
- , Rate of excretion of. A factor governing toxicity and parasiticial action. Voegtlin and Thompson. (Proceedings) 1922, **19**, 258.
- , Rate of excretion of, a factor governing toxicity and parasiticial action. Quantitative studies in chemotherapy. VI. Voegtlin and Thompson. 1923, **20**, 85.
- Arsenious oxide**, The significance of the marked variations in the toxicity of undissolved. Schwartz. (Proceedings) 1922, **19**, 258.
- oxide, variation in the toxicity of. The so-called habituation to "arsenic." Schwartz. 1923, **20**, 181.
- Arsphenamine**, A comparison of the prophylactic effects of atropine and epinephrine in anaphylactic shock and anaphylactoid phenomena from various colloids and. Hanzlik and Karsner. 1920, **14**, 425.
- and allied products, Quantitative studies of the colloidal properties of. Raiziss. (Proceedings) 1922, **19**, 271.
- , An experimental investigation of the cause of early death from, and of certain other features of the pharmacological action of the substance. Jackson and Smith. 1919, **12**, 221.
- , A study of the colloidal properties of, and allied products. Raiziss and Gavron. 1923, **20**, 163.
- , Biological reactions of. I. The mechanism of its agglutinative action on red blood cells in vitro. Oliver and Douglas. 1922, **19**, 187.
- , Biological reactions of. II. The protective action of hydrophilic colloids on the agglutination of red blood cells by arsphenamine. Oliver and Yamada. 1922, **19**, 199.
- , Biological reactions of. III. Its immediate toxicity as contrasted with its late ill effects, and the rôle of agglutination in the production of the former. Oliver and Yamada. 1922, **19**, 393.
- , Further pharmacological studies on. Smith. 1920, **15**, 279.
- , Influence of neoarsphenamine and, on the epinephrine content of the adrenal glands. Lucke, Kolmer and McCouch. 1923, **20**, 153.
- , Intravenous versus intramuscular administration of. Curative power and minimum effective dose. Quantitative studies in chemotherapy. V. Voegtlin and Smith. 1921, **17**, 357.
- , neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide, The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of. Quantitative pathological studies with arsenic compounds. I. Hooper, Kolls and Wright. 1921, **18**, 133.
- , The hemolytic properties of, and fifteen allied compounds. Grabfield. 1922, **19**, 343.
- , The oxidation of. Quantitative studies in chemotherapy. III. Voegtlin and Smith. 1921, **16**, 190.
- , The relative therapeutic value of neoarsphenamine and, of different manufacture. Quantitative studies in chemotherapy. IV. Voegtlin and Smith. 1921, **16**, 449.

- Arterial rings, Inhibitory action of certain drugs on the vaso-constriction produced by epinephrine. Demonstration by the use of. Macht. 1914-15, **6**, 591.
- Arteries, Note on the action of histamine upon surviving. Barbour. 1912-13, **4**, 245.
- Arthritis, The influence of some drugs used in the treatment of gout and, on the elimination of uric acid and other waste products from the blood. Denis. 1915, **7**, 601.
- Asetake, On the poisonous action of. Muto. 1918, **11**, 147.
- Asphyxia, The influence of, upon the rate of liberation of epinephrine from the adrenals. Stewart and Rogoff. 1917-18, **10**, 49.
- Asphyxiation, The elimination of carbon monoxide from the blood after a dangerous degree of, and a therapy for accelerating the elimination. Henderson and Haggard. 1921, **16**, 11.
- Astringency and protein-precipitation by masked tannin compounds. Sollmann. 1921, **17**, 63.
- Atkinson, H. V. Changes in the blood of a dog during heavy meat feeding. (Proceedings) 1921, **17**, 329.
- Atophan and novatophan, The effect of, on the endogenous uric acid excretion of normal men. Haskins. 1913-14, **5**, 63.
- and radium emanation, Uric acid concentration of the blood as influenced by. Fine and Chace. 1914-15, **6**, 219.
- , On the influence of phenylquinolin carbonic acid on the uric acid elimination. Folin and Lyman. 1912-13, **4**, 539.
- , Quinine and, in inflammation of frog's mesentery. Ikeda. 1916, **8**, 101.
- Atoxyl, The influence of heat upon the toxicity for trypanosomes of blood containing transformed. Terry. (Proceedings) 1912-13, **4**, 361.
- , Variations in the toxic effect of, on trypanosomes in vitro caused by altering the number of the organisms. Terry. (Proceedings) 1912-13, **4**, 361.
- Atropine, A comparison of the prophylactic effects of epinephrine and, in anaphylactic shock and anaphylactoid phenomena from various colloids and arsphenamine. Hanzlik and Karsner. 1920, **14**, 425.
- , adrenaline and pilocarpine, A note on the action of, upon the tonus waves in the terrapin heart. III. Gruber. 1920, **15**, 23.
- and certain central emetics, The antagonism between. Eggleston. 1917, **9**, 11.
- , Contribution to the chemico-pharmacodynamic relationship of homatropine and. Macht. (Proceedings) 1922, **19**, 251.
- , Does it alter the effects of digitalis upon the tonus of the heart muscle? Hirschfelder. (Proceedings) 1918, **11**, 177.
- , Effect of, on chloroform hyperglycemia. Ross. 1920, **15**, 135.
- , Effect of, on ether hyperglycemia. Ross. 1919, **12**, 377.
- , Influence of, on the glycogenic function. McGuigan. 1916, **8**, 407.
- , Notes on the action of. Henderson. (Proceedings) 1922, **19**, 271.
- , Notes on the treatment of gassed dogs with calcium, with quinine and with. Drugs after chlorine gassing. III. Barbour. 1920, **14**, 131.
- , Perfusion of the medulla of the turtle with caffeine, strychnine and with. Bush. 1920, **14**, 313.

- Atropine, pilocarpine and adrenaline, Tonus waves in the terrapin auricles as affected by. II. Gruber and Markel. 1919, **12**, 53.
- , pilocarpine. The action of drugs on the output of epinephrine from the adrenals. VI. Stewart and Rogoff. 1921, **16**, 71.
- , Quantitative studies on vagus stimulation and. Pilcher. (Proceedings) 1913-14, **5**, 525.
- , Quantitative studies of vagus stimulation and. Pilcher and Sollmann. 1913-14, **5**, 317.
- sulphate, Action of, on the isolated stomach and bowel of the dog. Zunz and Tysebaert. 1916, **8**, 325.
- , The effects of pilocarpine and, upon the amylolytic power and composition of saliva. Ewing. 1911-12, **3**, 1.
- Aub, J. C., Binger, Carl, and Cannon, W. B. A note on the effect of nicotine injection on adrenal secretion. 1911-12, **3**, 379.
- Auer, J. On the causation of experimental, anaphylactic hemorrhages in the stomach. (Proceedings) 1922, **19**, 255.
- , On the relation between degree and duration of protein sensitization in guinea-pigs and dogs. (Proceedings) 1919, **13**, 511.
- , The effect of the digitalis group including anaphylaxis upon some skeletal muscles in rabbits, especially in regard to rigor. (Proceedings) 1911-12, **3**, 464.
- , and Gates, F. L. A respiratory factor in the production of adrenin pulmonary edema in the rabbit. (Proceedings) 1917, **9**, 361.
- , and Gates, F. L. Some effects of adrenaline when injected into the respiratory tract of rabbits. (Proceedings) 1914-15, **6**, 608.
- , and Meltzer, S. J. Effect of ether inhalation upon the skeletal motor mechanism. (Proceedings) 1913-14, **5**, 521.
- , and Meltzer, S. J. Fatal action of magnesium sulphate by absorption from the intestines. (Proceedings) 1913-14, **5**, 524.
- , and Meltzer, S. J. On intramuscular absorption. (Proceedings) 1910-11, **2**, 402.
- and Meltzer, S. J. On the duration of constriction of blood vessels by epinephrine. 1921, **17**, 177.
- , and Meltzer, S. J. Prolonged constriction of the blood vessels by subcutaneous injection of adrenaline into the ear of rabbit. (Proceedings) 1917, **9**, 358.
- , and Meltzer, S. J. The effect of epinephrine and pituitrin upon the blood vessels when injected subcutaneously in the ear of a rabbit. (Proceedings) 1919, **13**, 511.
- , and Meltzer, S. J. The influence of pituitrin upon the depressor action of the vagus nerve in the cat. (Proceedings) 1912-13, **4**, 359.
- , and Meltzer, S. J. The treatment of experimental tetanus in dogs by intravenous injection of tetanus antitoxin and magnesium sulphate. (Proceedings) 1919, **13**, 506.
- , and Witherbee, W. D. On decreasing the reaction of normal skin to destructive doses of x-rays by pharmacological means, and on the mechanism involved. (Proceedings) 1921, **17**, 337.

- Auricles, Further studies on the antagonistic action of epinephrine to certain drugs upon the tonus and tonus waves in the terrapin. V. Gruber. 1921, **16**, 405.
- , The antagonistic actions of epinephrine and potassium chloride on the tonus and tonus waves in the excised terrapin. IV. Gruber. 1920, **15**, 271.
- , Tonus waves in the terrapin, as affected by pilocarpine, atropine and adrenaline. II. Gruber and Markel. 1919, **12**, 53.
- Auricular fibrillation, Digitalis in. Cushny. 1918, **11**, 103.
- fibrillation, Effect of digitalis in experimental. Hirschfelder. (Proceedings) 1914-15, **6**, 597.
- fibrillation, The change produced in the bloodflow (in the hands) under the influence of digitalis in cases of. Studies on the circulation in man. XIV. Stewart and Scott. 1915, **7**, 263.
- systole, The effect of drugs on, and their consequent effect on ventricular efficiency. Wiggers. (Proceedings) 1916, **8**, 117.
- Austin, J. B., and Crile, G. W. Nitrous oxide sleep compared with normal sleep—brain cell studies. (Proceedings) 1912-13, **4**, 351.
- Azulene, The toxicological action of. Whelan, Leonard and Loevenhart. (Proceedings) 1921, **17**, 346.
- Bactericidal action of the sodium salts of iodbenzoic, iodosobenzoic and iodoxybenzoic acids, On the antiseptic and. Arkin. 1911-12, **3**, 145.
- action, Studies on the protozoöcidal and. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. III. Walters, Baker and Koch. 1917-18, **10**, 341.
- Bailey, H. C. A clinical study of crystalline strophanthine. 1910, **1**, 349.
- Baker, W. F., Walters, A. L., and Koch, E. W. Pharmacological studies of the ipecac alkaloids with some synthetic derivatives of cephaeline. III. Studies on protozoöcidal and bactericidal action. 1917-18, **10**, 341.
- Barbour, H. G. Acetyl salicylic acid and heat regulation in febrile cases. (Proceedings) 1919, **13**, 500.
- , Action of some derivatives of phenylethylamine. (Proceedings) 1916, **8**, 126.
- , Drugs after chlorine gassing. II. Observations upon the treatment of gassed dogs with circulatory stimulants. 1920, **14**, 61.
- , Drugs after gassing. III. Notes on the treatment of gassed dogs with calcium, with quinine, and with atropine. 1920, **14**, 131.
- , Morphine and scopolamine action upon the intact uterus. 1915, **7**, 547.
- , Note on the action of histamine upon surviving arteries. 1912-13, **4**, 245.
- , The effects of chlorine upon the body temperature. 1920, **14**, 65.
- , Two types of periodic respiration due to morphine. 1913-14, **5**, 393.
- , Two types of periodic respiration produced by morphine. (Proceedings) 1913-14, **5**, 525.
- , and Abel, J. J. Tetanic convulsions in frogs produced by acid fuchsin and their relation to the problem of inhibition in the central nervous system. 1910-11, **2**, 167.
- , and Abel, J. J. Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the central nervous system. (Proceedings) 1910-11, **2**, 404.

- Barbour, H. G., and Copenhaver, N. H. The response of the surviving uterus to morphine and scopolamine. 1915, **7**, 529.
- , and Deming, Clyde L. II. Paradoxical action of antipyrine in partially and completely decerebrate rabbits. 1913-14, **5**, 149.
- , and Devenis, N. M. Acetyl salicylic acid and heat regulation in normal individuals. (Proceedings) 1919, **13**, 499.
- , and Frankel, E. M. The action of phenylethylamine on the heart. 1915, **7**, 511.
- , and Herrmann, J. B. The relation of the dextrose and water content of the blood to antipyretic drug action. 1921, **18**, 165.
- , and Hjort, A. M. Notes on the toxic effects of chlorine antiseptics in dogs. 1921, **18**, 201.
- , Hjort, A. M., and Taylor, F. A. Drugs after chlorine gassing. I. The influence of morphine upon the fatality of chlorine poisoning. 1920, **14**, 55.
- , and Kleiner, S. B. The action of caffeine and of epinephrine upon the vagus nerve. 1915, **7**, 541.
- , and Maurer, L. L. Tyramine as a morphine antagonist. 1920, **15**, 305.
- , Maurer, L. L., and v. Glahn, W. C. Paraoxyphenylethylamine as a morphine antagonist. (Preliminary communication.) (Proceedings) 1916, **8**, 124.
- , and Moise, M. D. The mechanism of cocaine fever. (Proceedings) 1922, **19**, 270.
- , and Prince, A. L. III. The control of the respiratory exchange by heating and cooling the temperature centers. 1914-15, **6**, 1.
- , and Rapoport, F. H. Uterine effects of intravenous injections of fluids. 1921, **18**, 407.
- , and Spaeth, R. A. Responses of fish melanophores to sympathetic and parasympathetic stimulants and depressants. (Proceedings) 1917, **9**, 356.
- , and Spaeth, R. A. The action of epinephrine and ergotoxin upon single, physiologically isolated cells. 1917, **9**, 431.
- , and Williams, H. W. The effects of chlorine upon isolated bronchi and pulmonary vessels. 1920, **14**, 47.
- , and Wing, E. S. I. The direct application of drugs to the temperature centers. 1913-14, **5**, 105.
- Barium, Experiments with aconitine and, on the isolated heart. Salant and Kleitman. (Proceedings) 1922, **19**, 257.
- , Studies on the action of. Salant and Kleitman. 1923, **20**, 247.
- Basterfield, Steward. The pharmacological properties of some iso-urea derivatives. 1923, **20**, 451.
- Battle and Salant, William. The influence of the oil of chenopodium on the heart of the turtle. (Proceedings) 1921, **17**, 331.
- Bayles, W. M. The action of gum acacia on the circulation. 1920, **15**, 29.
- Becht, F. C. Studies on the cardio-inhibitor center. (Proceedings) 1921, **17**, 336.
- , The influence of saccharin on the catalases of the blood. 1921, **16**, 155.
- , and Hager, B. H. The action of viburnum prunifolium. 1919, **13**, 61.
- , and McGuigan Hugh. The site of the action of strychnine. 1913-14, **5**, 449.

- Beebe, S. P. and Van Alstyne, E. The effect of high protein diet on the growth of transplantable tumors of the white rat. (Proceedings) 1912-13, **4**, 343.
- Belladonna, The physiological standardization of extract of. Storm van Leeuwen and Maal. 1921, **18**, 313.
- Bengis, Robert, and Salant, William. Absorption and elimination of different dyes. (Proceedings) 1916, **8**, 119.
- , and Salant, William. The action of fluorescein and its derivatives. (Proceedings) 1917, **9**, 344.
- , and Salant, William. The production of renal changes by oil of chenopodium and fatty oils, and the protective action of diet on the kidney. 1917, **9**, 529.
- , and Salant, William. The protective action of diet against renal irritants. (Proceedings) 1917, **9**, 344.
- Benzaldehyde, A pharmacological study of. Macht. (Proceedings) 1919, **13**, 508.
- Benzene, p. Acetyl-amido-ethoxy. Cow. 1919, **12**, 343.
- Benzoic acid, Detoxification of, by optical isomers of leucin. Koelker and Amberg. 1910-11, **2**, 55.
- acid derivatives, On the pharmacological action and antiseptic value of certain. Loevenhart and Arkin. (Proceedings) 1910, **1**, 569.
- Benzyl alcohol, A pharmacological and therapeutic study of, as a local anesthetic. Macht. 1918, **11**, 263.
- alcohol as a spinal anesthetic. Voegtlin and Livingston. (Proceedings) 1919, **13**, 513.
- alcohol, Further experiences, experimental and clinical, with benzyl benzoate and. Macht. (Proceedings) 1919, **13**, 509.
- alcohol: its anesthetic efficiency for mucous membranes. Sollmann. 1919, **13**, 355.
- , alcohol solutions, The stability of. Macht and Shohl. 1921, **16**, 61.
- alcohol and benzyl esters, On the anthelmintic action of. Macht. 1920, **14**, 323.
- benzoate, Further experiences, experimental and clinical, with benzyl alcohol and. Macht. (Proceedings) 1919, **13**, 509.
- benzoate, The effect of, on the leucocytes of the rabbit. Emge and Jensen. 1921, **17**, 415.
- Benzylcarbinol: A local anesthetic. Hjort and Eagan. 1920, **14**, 211.
- Benzyl esters, A pharmacological and therapeutic study of some. On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. II. Macht. 1918, **11**, 419.
- esters, On the anthelmintic action of benzyl alcohol and. Macht. 1920, **14**, 323.
- esters, On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth muscle with a pharmacological and therapeutic study of some. I. On the relation of the chemical structure of the opium alkaloids to their action on smooth muscle. Macht. 1918, **11**, 389.

- Benzyloquinoline alkaloid of chelidonium (celandine or fetterwort) and stylophorum. The pharmacology of chelidonine. Hanzlik. 1921, **18**, 63.
- group, Comparative effects of morphine and alkaloids of the, on cardiac muscle. Hanzlik. 1921, **17**, 445.
- Berberine. The action of hydrastis; its alkaloids hydrastine and, and the derivatives hydrastinine and cotarnine. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- Beri-beri, The treatment of experimental, with extracts of spinal cord. Voegtlin and Towles. 1913-14, **5**, 67.
- Bernheim, B. M., Homans, John, and Voegtlin, Carl. Anastomosis between the portal vein and the inferior vena cava (Eck's fistula). 1910, **1**, 463.
- , and Voegtlin, Carl. The liver in its relation to anaphylactic shock. 1910-11, **2**, 507.
- , and Voegtlin, Carl. The rôle of the portal circulation of the liver in bile formation and jaundice. (Proceedings) 1910-11, **2**, 404.
- , and Voegtlin, Carl. The rôle of the portal circulation of the liver in bile formation and jaundice. 1910-11, **2**, 455.
- Beryllium, Experiments with salts of aluminium and. Gies. (Proceedings) 1910-11, **2**, 403.
- Bicek, J., Hirschfelder, A. D. and Kucera, F. J. The effect of high temperature upon the action and toxicity of digitalis. (Proceedings) 1920, **15**, 238.
- , Kucera, F. J., Hanson, W., and Hirschfelder, A. D. The effect of high temperature upon the action and toxicity of digitalis. 1920, **15**, 427.
- Bile duct, Effect of ligation of the ureters or, upon the toxicity and trypanocidal action of arsenicals. Quantitative studies in chemotherapy. VII. Voegtlin, Dyer and Miller. 1933, **20**, 129.
- duct, Effect of ligation of the ureters or, upon the toxicity and trypanocidal action of arsenicals. Voegtlin, Dyer and Miller. (Proceedings) 1922, **19**, 258.
- flow, A comparison of the influence of secretine and the antineuritic vitamine on pancreatic secretion and. Voegtlin and Myers. 1919, **13**, 301.
- formation and jaundice, The rôle of the portal circulation in. Voegtlin and Bernheim. (Proceedings) 1910-11, **2**, 404.
- formation and jaundice, The rôle of the portal circulation of the liver in. Voegtlin and Bernheim. 1910-11, **2**, 455.
- , The antitoxic action of rattlesnake serum on rattlesnake venom with a note on the percentage of total solids of the serum and. Welker and Marshall. 1915, **7**, 125.
- , Toxicity of rattlesnake serum and, with a note on the effect of bile on the toxicity of venom. Welker and Marshall. 1914-15, **6**, 563.
- Binger, Carl. Toxicity of phosphates, in relation to blood calcium and tetany. 1917-18, **10**, 105.
- , Cannon, W. B., and Aub, J. C. A note on the effect of nicotine injection on adrenal secretion. 1911-12, **3**, 379.
- Bitter tones, Further studies on the action of, on the secretion of gastric juice. Contributions to the physiology of the stomach. XXVIII. Moorhead. 1915, **7**, 577.
- , Action of the so-called stomachics or, on the hunger mechanism. Contributions to the physiology of the stomach. XVI. Carlson, Vande Erve, Lewis and Orr. 1914-15, **6**, 209.

- Blackhead (entero-hepatitis) in turkeys, Observations on the effect of ipecac in the treatment of infectious. Wegeforth and Wegeforth. 1921, **17**, 249.
- in turkeys, Ipecac in the treatment of. Graybill. 1923, **20**, 115.
- Bladder, Action on the. The point of attack of certain drugs acting on the periphery. I. Edmunds and Roth. 1920, **15**, 189.
- , Aल्पine, eucaïne, holocaine, novocaine and stovaine on the. Waddell. 1917-18, **10**, 243.
- Bland oils, The action of, on certain hemolytic agents. Pilcher. (Proceedings) 1912-13, **4**, 350.
- Blood, A direct method for carbon monoxide in. Kruse. (Proceedings) 1921, **17**, 332.
- , A simple method for the determination of the coagulation time of, in animals. Inchley. 1921, **18**, 237.
- and joint fluid of individuals receiving full therapeutic doses of salicylate, Salicyl in. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 130.
- and joint fluid of individuals receiving full therapeutic doses of the drug, Salicylate in the. The salicylates. IV. Scott, Thoburn and Hanzlik. 1917, **9**, 217.
- , Attempt to detect thyroid secretion in, obtained from the glands of individuals with exophthalmic goiter and other conditions involving the thyroid. Rogoff and Goldblatt. 1921, **17**, 473.
- calcium and tetany, Toxicity of phosphates, in relation to. Binger. 1917-18, **10**, 105.
- cells in vitro. The mechanism of its agglutinative action on red. Biological reactions of arsphenamine. I. Oliver and Douglas. 1922, **19**, 187.
- cells, The protective action of hydrophilic colloids on the agglutination of red, by arsphenamine. Biological reactions of arsphenamine. II. Oliver and Yamada. 1922, **19**, 199.
- , Changes in the, of a dog during heavy meat feeding. Atkinson. (Proceedings) 1921, **17**, 329.
- coagulating, The relation between the smooth muscle contracting and, properties of tissue extracts. Mills, Raap and Jackson. (Proceedings) 1921, **17**, 341.
- concentrating organ, The liver as a. Lamson and Roca. 1921, **17**, 481.
- concentration, The influence of purgatives upon. Errico and Underhill. 1922, **19**, 135.
- concentration, The influence upon, of Vaughan's crude soluble poison. Studies on the physiological action of some protein derivatives VI. Underhill and Ringer. 1922, **19**, 179.
- concentration. The relation of, to peptone shock. Studies on the physiological action of some protein derivatives. V. Underhill and Ringer. 1922, **19**, 163.
- containing transformed atoxyl, The influence of heat upon the toxicity for trypanosomes of. Terry. (Proceedings) 1912-13, **4**, 361.
- dextrose, Effect of adrenaline and extracts of pancreas and liver on. Ross and Davis. 1923, **20**, 121.
- flow (in the hands), The change produced in the, under the influence of digitalis in cases of auricular fibrillation. Stewart and Scott. 1915, **7**, 263.

- Blood flow (in the hands or feet) due to mechanical causes, Further observations, chiefly pharmacological, on the criteria by which deficiencies in the, may be discriminated from changes due to functional (vasomotor) causes. Studies on the circulation in man. XV. Stewart. 1915, **7**, 281.
- flow in a patient with double aortic and double mitral disease. Newburgh and Means. 1915, **7**, 441.
- flow in normal human subjects, Effect of caffeine upon the. Means and Newburgh. 1915, **7**, 449.
- flow, The secretion of urine and action of diuretics as influenced by, and reduction of renal substance. Marshall and Kolls. (Proceedings) 1919, **13**, 507.
- , Influence of salicylates on the elimination of uric acid and other waste products from the. Denis. 1915, **7**, 255.
- in rabbits, The effect of epinephrine and emotional stimuli on the red corpuscle content of the. The rôle of the liver in acute polycythaemia. II. Lamson. 1916, **8**, 167.
- of dogs gassed with fatal concentrations of chlorine, The effect of morphine upon the alkali reserve of the. Hjort and Taylor. 1919, **13**, 407.
- of living animals, On the removal of diffusible substances from the circulating, by dialysis. Abel, Rowntree and Turner. 1913-14, **5**, 275.
- and plasma clotting efficiency of thromboplastic agents in vitro and their stability. Hanzlik and Weidenthal. 1920, **14**, 157.
- pressure apparatus, A non-clotting. Lamson. 1920, **15**, 75.
- pressure experiments, A device for overcoming clotting during direct MacCraken and Werness. 1917, **9**, 305.
- pressure, Evaluation of the hormone of the infundibulum of the pituitary gland in terms of histamine, with experiments on the action of repeated injections of the hormone on the. Abel and Rouiller. 1923, **20**, 65.
- pressure in the unanesthetized dog, An indirect method for the determination of. Kolls. 1920, **15**, 443.
- , Relation of the dextrose and water content of the, to antipyretic drug action. Barbour and Herrmann. 1921, **18**, 165.
- pressure, The action of epinephrine on vasomotors and heart beats studied separately by the artificial control of, by means of the compensator. Brooks, McPeck and Seymour. (Proceedings) 1918, **11**, 168.
- pressure, The action of salts of choline on arterial. Mendel, Underhill and Renshaw. 1911-12, **3**, 649.
- pressure, The primary depression and secondary rise in, caused by epinephrine. McGuigan and Hyatt. 1919, **12**, 59.
- pressure tracings in man. An apparatus for continuous. Kolls. 1920, **15**, 433.
- serum diastases, The source of. Davis and Ross. (Proceedings) 1921, **17**, 347.
- serum of rabbits, Effects of chloroform and of ether anesthesia on the protein contents of the. Buck. 1913-14, **5**, 553.
- , serum, The non-dependence of the protein quotient in the, upon the rapidity of metabolism with especial reference to the non-effect of antipyretics, sodium cacodylate and thyroid extract. Hanson and McQuarrie. 1917-18, **10**, 261.

- Blood, Some constituents of the. On the removal of diffusible substances from the circulating blood of living animals by dialysis. II. Abel, Rowntree and Turner. 1913-14, **5**, 611.
- sugar content, The influence of morphine on normal cats and on cats deprived of the greater part of the adrenals with special reference to body temperature, pulse and respiratory frequency and. Stewart and Rogoff. 1922, **19**, 97.
- supply to the liver, Further observations on the effect of shutting off the arterial, and the reaction of the normal animal to epinephrine, and removal of the liver from the circulation. The rôle of the liver in acute polycythaemia IV. Lamson. 1917, **9**, 129.
- , The action of glandular extracts upon the amount of epinephrine in the. Ott and Scott. 1911-12, **3**, 625.
- , The comparative concentrations of alcohol in human urine and, at intervals after ingestion. Miles. 1923, **20**, 265.
- , The condition of the sugar in the. Hess and McGuigan. 1914-15, **6**, 45.
- , The effect of morphine upon the alkali reserve of the, of dogs gassed with fatal concentrations of chlorine. Hjort and Taylor. 1919, **13**, 407.
- , The effect of morphine upon the alkali reserve of the, of man and certain animals. Gauss. 1921, **16**, 475.
- , The effects of sodium fluoride upon the calcium balance and the calcium content of the. Clark. (Proceedings) 1922, **19**, 254.
- The elimination of carbon monoxide from the, after a dangerous degree of asphyxiation, and a therapy for accelerating the elimination. Henderson and Haggard. 1921, **16**, 11.
- , The influence of saccharin on the catalases of the. Becht. 1921, **16**, 155.
- , The influence of some drugs used in the treatment of gout (and arthritis) on the elimination of uric acid and other waste products from the. Denis. 1915, **7**, 601.
- , The liberation of the internal secretion of the thyroid gland into the. Rogoff. 1919, **12**, 193.
- , The proportion in which adrenaline distributes itself between corpuscles and serum in relation to the technique of testing for epinephrine in. Stewart and Rogoff. 1917, **9**, 393.
- , The relation of plasma volume to the number of erythrocytes per unit volume of. The rôle of the liver in acute polycythaemia. III. Lamson and Keith. 1916, **8**, 247.
- , The rôle of the liver in acute polycythemia: a mechanism for the regulation of the red corpuscle content of the. Lamson. 1915, **7**, 169.
- , The toxicity of the, of adrenalectomised frogs. Kellaway. 1921, **18**, 399.
- , The uric acid concentration of the, as influenced by atophan and radium emanation. Fine and Chace. 1914-15, **6**, 219.
- vessel walls, On the destruction of epinephrine and constrictor substances of serum by oxygenation in the presence of. Tatum. 1912-13, **4**, 151.
- vessels, Action of iodides on the heart and. Macht. (Proceedings) 1913-14, **5**, 514.
- vessels, A note on the combined action of camphor and lack of oxygen upon the isolated mammalian heart, with an observation upon the direct action of lack of oxygen upon. Richards. 1914-15, **6**, 73.

- Blood vessels, On the duration of constriction of, by epinephrine. Meltzer and Auer. 1921, **17**, 177.
- vessels, Prolonged constriction of the, by subcutaneous injections into the ear of the rabbit of adrenaline. Auer and Meltzer. (Proceedings) 1917, **9**, 358.
- vessels, Some reactions of, to certain chemicals. Adler. 1916, **8**, 297.
- vessels, The effect of epinephrine and pituitrin upon the, when injected subcutaneously in the ear of a rabbit. Auer and Meltzer. (Proceedings) 1919, **13**, 511.
- volume and blood volume methods. Lamson and Nagayama. 1920, **15**, 331.
- volume, Certain aspects of the part played by the liver in the regulation of the. Lamson. (Proceedings) 1922, **19**, 267.
- volume in rabbits, The influence of acacia-glucose solutions on urine excretion and. Mattill, Mayer and Sauer. 1921, **16**, 391.
- volume, The part played by the liver in the regulation of, and red corpuscle concentration in acute physiological conditions. Lamson. 1921, **16**, 125.
- Bloom, William and Macht, D. I. A pharmacodynamic analysis of cocaine action on the cerebrum. (Proceedings) 1921, **17**, 331.
- , and Macht, D. I. Effect of some antipyretics on the behavior of rats in the circular maze. 1921, **17**, 21.
- and Macht, D. I. On the comparative toxicity of alcohol, caffeine and nicotine. (Proceedings) 1921, **17**, 330.
- Bollinger, H. J., Macht, D. I., and Johnson, S. L. On the peripheral action of the opium alkaloids. Effect on the sensory nerve terminals. 1916, **8**, 451.
- Bonar, M. L. and Sollmann, Torald. Experimental drug addiction. (Proceedings) 1920, **16**, 238.
- , and Sollmann, Torald. The effects of some new local anesthetics. Para-aminobenzoyl dinormal butyl-amino ethanol and propanol; and diethyl aminopropyl diphenyl amino-carbinol. 1921, **16**, 467.
- Boothby, W. M. Further observations on the anesthetic tension of ether vapor. (Proceedings) 1916, **8**, 115.
- The determination of the anesthetic tension of ether vapor in man. 1913-14, **5**, 379.
- The determination of the anesthetic tension of ether vapor in man with some theoretical deductions as to the mode of action of the common volatile anesthetics. (Proceedings) 1913-14, **5**, 525.
- , and Sandiford, I. The calibration of the Waller gas balance and the Connell anethetometer. 1913-14, **5**, 369.
- Borax, The action of, on the uterus. Gunn. 1921, **16**, 135.
- Boutwell, L. R., Peeler, J. O., and Greene, C. W. Analysis of the action of digitalis on the cardiac inhibitory center and on the cardiac muscles. (Proceedings) 1914-15, **6**, 598.
- Bowel, Differences in the action of drugs on different parts of the. XVI. Alvarez. 1919, **12**, 171.
- of the dog, On the action of atropine sulphate on the isolated stomach and. Zunz and Tysebaert. 1916, **8**, 325.

- Brain, Artificial cerebral circulation after circulatory isolation of the mammalian. Brown. (Proceedings) 1914-15, **6**, 603.
- , Artificial cerebral circulation after circulatory isolation of the mammalian. Brown. (Proceedings) 1914-15, **6**, 603.
- , Artificial cerebral circulation after circulatory isolation of the mammalian. Brown. 1916, **8**, 185.
- cell studies, nitrous oxide sleep compared with normal sleep. Crile and Austin. (Proceedings) 1912-13, **4**, 351.
- cephalin, On the chemical composition and physiological characteristics of. Fenger. 1921, **18**, 51.
- phosphatides, The function of the, in the physiological action of strychnine. Koch and Mostrom. 1910-11, **2**, 265.
- phosphatides, The relation of, to tissue metabolites. Koch and Williams. 1910-11, **2**, 253.
- Breathing, The influence of forced, upon the circulation. Henderson, Prince and Haggard. 1918, **11**, 203.
- Brewster, J. F., and Alsberg, C. L. Note on the physiological action of *Cordyceps sinensis*. 1917-18, **10**, 277.
- Bromide ions, Concerning the action of the iodide, nitrate and, on the respiratory center. Macht and Hooker. 1918, **11**, 63.
- salts, The rôle of the, on rhythmically contracting organs. I. The action of the bromides on the isolated mammalian heart. Kruse. 1920, **14**, 137.
- salts, The rôle of the, on rhythmically contracting organs. II. The action of the bromides on smooth muscle. Kruse. 1920, **14**, 149.
- Bromides, The action of the, on the isolated mammalian heart. The rôle of the bromide salts on rhythmically contracting organs. I. Kruse. 1920, **14**, 137.
- , The action of the, on smooth muscle. The rôle of the bromide salts on rhythmically contracting organs. II. Kruse. 1920, **14**, 149.
- Bronchi and pulmonary vessels, The effects of chlorine upon isolated. Barbour and Williams. 1920, **14**, 47.
- of perfused lungs, Effects of various colloids and other agents which produce anaphylactoid phenomena on. Hanzlik and Karsner. 1920, **14**, 449.
- , Response to drugs of excised, from normal and diseased animals. Macht and Ting. 1921, **18**, 111.
- Bronchioles, The action of certain drugs on the. Jackson. 1913-14, **5**, 479.
- , The pharmacological action of certain substances on the. Jackson. (Proceedings) 1913-14, **5**, 519.
- , The reversible action of adrenaline and some kindred drugs on the. Golla and Symes. 1913-14, **5**, 87.
- Broncho-constrictor and depressor substance obtainable from the anterior and posterior lobes of the fresh pituitary gland, On the relative amounts of. Roca. 1921, **18**, 1.
- Bronchus, A study of antispasmodic drugs on the. Macht and Ting. 1921, **18**, 373.
- Bronfenbrenner, J., and Noguchi, H. On the resistance of various spirochaetes in cultures to the action of chemical and physical agents. 1912-13, **4**, 333.
- Bronson, Edith, and Ford, W. W. Note on the amanita-toxin. 1912-13, **4**, 241.

- Brooks, Clyde. Foreign protein therapy. (Proceedings) 1920, **15**, 234.
- , Arbuthnot, T. S., and Snowden, R. R. A study of the excretion of repeated doses of phenolsulphonephthalein. (Proceedings) 1917, **9**, 349.
- , and Heard, J. D. Action of camphor on the circulation. (Proceedings) 1914-15, **6**, 605.
- , McPeck, C. and Seymour, R. J. The action of epinephrine on vasomotors and heart beats studied separately by the artificial control of blood pressure by means of the compensator. (Proceedings) 1918, **11**, 168.
- , and Matthews, S. A. On the action of magnesium sulphate. 1910-11, **2**, 73.
- Brooks, M. M. Penetration of kations into living cells. (Proceedings) 1922, **19**, 272.
- Brown, E. D. Artificial cerebral circulation after circulatory isolation of the mammalian brain. (Proceedings) 1914-15, **6**, 603.
- , Artificial cerebral circulation after circulatory isolation of the mammalian brain. 1916, **8**, 185.
- , Experiments on the variability in susceptibility to poison ivy. (Proceedings) 1921, **17**, 335.
- , Observations on the effect of epinephrine on the medullary centers. 1916, **8**, 195.
- , Ahlfs, Jacob and Howard, Merrill. Experiments on the toxicity of picric acid on the frog and on the rabbit. (Proceedings) 1920, **15**, 235.
- , and Anderson, D. D. The acidity of some plants due to a mechanical action. (Proceedings) 1918, **11**, 177.
- , and Anderson, D. D. The acidity of some plants due to a mechanical action. 1919, **12**, 37.
- Brown, W. H., and Loevenhart, A. S. The effect of hematin on the circulation and respiration. (Proceedings) 1912-13, **4**, 347.
- , and Pearce, Louise. Concerning the presence of spirocheticidal action in a group of drugs which possess no trypanocidal action in vivo. (Proceedings) 1920, **15**, 243.
- , and Pearce, Louise. On the therapeutic action of ureids of N-phenylglycine-p-arsonic acid in trypanosome and spirochete infections. (Proceedings) 1920, **15**, 242.
- , and Pearce, Louise. On the toxicologic action of ureids of N-phenylglycine-p-arsonic acid with special reference to the β -methyl ureid. (Proceedings) 1920, **15**, 240.
- , and Pearce, Louise. Primary serotal syphilis of the rabbit and its utilization in chemotherapeutic experiments. (Proceedings) 1917, **9**, 355.
- , and Pearce, Louise. Some aspects of the biological action of n-phenylglycine amide-p-arsonic acid. (Proceedings) 1919, **13**, 502.
- , and Pearce, Louise. Summary of results from the treatment of human trypanosomiasis with tryparsamide. (Proceedings) 1922, **19**, 257.
- , and Pearce, Louise. The toxicity of salvarsan and neosalvarsan. (Proceedings) 1917, **9**, 354.
- Brucine. The application of the Kjeldahl method to compounds of, with reference to the new brucine salt of a new nucleotide. Jones. 1919, **13**, 489.
- Brunton, Sir Thomas Lauder (neurologue). A. R. C. and J. J. A. 1917, **9**, 73.

- Brush, N. H., and Ford, W. W. Action of *Amanita phalloides* and other *Amanitas* upon the frog's heart. 1914-15, **6**, 195.
- and Ford, W. W. Note on the properties of fungi gathered in France. 1914-15, **6**, 191.
- Buck, Leonard W. Effects of chloroform and of ether anesthesia on the protein contents of the blood serum of rabbits. 1913-14, **5**, 553.
- Bufo agua, Two crystalline pharmacological agents obtained from the tropical toad. Abel and Macht. 1911-12, **3**, 319.
- Bunting, C. H., Loevenhart, A. S., and Martin, G. H. Morphological changes in the tissues of the rabbit as a result of reduced oxidations. (Proceedings) 1916, **8**, 112.
- Burge, W. E. Mode of action of anesthetics in producing anesthesia. (Proceedings) 1918, **11**, 174.
- The effects of pyretics and antipyretics on catalase production. 1920, **14**, 121.
- The mode of action of certain stimulants in increasing and of certain depressants in decreasing oxidation. 1919, **12**, 243.
- Burn, J. H. Action of conessine and holarrhenine, the alkaloids of *holarrhena congolensis*, and also of oxyconessine. 1914-15, **6**, 305.
- , and Dale, H. H. Action of certain quaternary ammonium bases. 1914-15, **6**, 417.
- Burnett, T. C., and Robertson, T. B. On the action of sodium citrate upon mammalia, with especial reference to acquired tolerance and to its action upon the cerebellum. 1911-12, **3**, 625.
- Burns, The application of a concentrated solution of magnesium sulphate to scalds and. Meltzer. 1919, **12**, 211.
- Bush, A. D. Drug action as modified by disease toxins. I. Ouabain vs. diphtheria. 1919, **13**, 55.
- Drug perfusion of the medulla of the turtle. II. Aconitine, morphine, cocaine, quinine. 1920, **15**, 173.
- Perfusion of the medulla of the turtle with atropine, caffeine, and with strychnine. 1920, **14**, 313.
- Perfusion of the medulla of the turtle. III. Epinephrine. 1920, **15**, 297.
- Butter Fat, The stability of the growth-promoting substance in. Mendel and Osborne. (Proceedings) 1916, **8**, 109.
- Butylamins, Toxicity and actions of the normal. Hanzlik. 1923, **20**, 435.
- Cadmium, Pharmacological action of. Alsberg and Schwartz. (Proceedings) 1919, **13**, 504.
- , The comparative toxicity and physiological activity of zinc and. Alsberg and Schwartz. (Proceedings) 1920, **15**, 235.
- Cadwell, S. M., DeWitt, L. M., and Leavell, G. Distribution of gold in animal tissues. Studies on the biochemistry and chemotherapy of tuberculosis. XVII. 1918, **11**, 357.
- Caffeine and alcohol, a study of antagonism and synergism. Pilcher. 1911-12, **3**, 267.
- and sodium bicarbonate, The effects of, upon the toxicity of acetanilide. Hale. 1910, **1**, 185.

- Caffeine, Antagonistic studies with alcohol and. Pilcher and Sollmann. (Proceedings) 1911-12, **3**, 473.
- , Clinical studies with. Taylor. (Proceedings) 1913-14, **5**, 516.
- , Cross tolerance; renal response to caffeine and theobromine in rabbits tolerant toward. Myers. (Proceedings) 1918, **11**, 177.
- , Demethylation of theobromine and, under pathological conditions. Salant and Phelps. (Proceedings) 1911-12, **3**, 469.
- , Effect of, on intestinal movements. Plant and Reynolds. (Proceedings) 1922, **19**, 256.
- , Further observation on the action of, on the circulation. Salant. (Proceedings) 1912-13, **4**, 341.
- , glycosuria, Further observations on. Salant and Kahn. (Proceedings) 1913-14, **5**, 512.
- , On the comparative toxicity of alcohol, nicotine and. Macht and Bloom. (Proceedings) 1921, **17**, 330.
- , Perfusion of the medulla of the turtle with atropine, strychnine and with. Bush. 1920, **14**, 313.
- , Some observations on the action of an isomer of. Salant and Connet. 1918, **11**, 81.
- , The action of epinephrine and, upon the vagus nerve. Barbour and Kleiner. 1915, **7**, 541.
- , The action of, on the mammalian heart. Pilcher. 1911-12, **3**, 609.
- , The action of theobromine, theophylline and, on the mammalian and batrachian heart. Heathcote. 1921, **16**, 327.
- , The actions of, on the mammalian circulation. I. The persistent effects of caffeine on the circulation. Sollmann and Pilcher. 1911-12, **3**, 19.
- , The effect of, on the circulation. Salant. (Proceedings) 1911-12, **3**, 468.
- , The effect of, on the reaction to carbon dioxide of the normal human respiratory mechanism. Grabfield and Means. 1917-18, **10**, 159.
- , The effect of, upon the blood flow in normal human subjects. Means and Newburgh. 1915, **7**, 449.
- , The elimination of. Salant and Rieger. (Proceedings) 1911-12, **3**, 469.
- , The elimination of creatine and creatinine after the administration of. Salant and Rieger. (Proceedings) 1910-11, **2**, 400.
- , The influence of, on protein metabolism in dogs, with some remarks on demethylation in the body. Salant and Phelps. (Proceedings) 1910-11, **2**, 401.
- , The influence of temperature on the toxicity of. Salant. (Proceedings) 1912-13, **4**, 342.
- , The toxicity of. Salant and Rieger. (Proceedings) 1910, **1**, 572.
- , The toxicity of. Salant and Rieger. (Proceedings) 1911-12, **3**, 455.
- , tolerance. Salant and Rieger. (Proceedings) 1910, **1**, 572.
- , Urine formation by the perfused kidney: preliminary experiments on the action of. Richards and Plant. 1915, **7**, 485.
- Calcium balance of the blood, The effects of sodium fluoride upon the calcium content and. Clark. (Proceedings) 1922, **19**, 254.
- , carbonate (precipitated), sodium fluoride, sodium chloride, "phosphate rock," and calcium phosphate (precipitated), Fluoride, chloride and calcium, including. Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.

- Calcium chloride, Saline perfusion of the respiratory center in frogs: the effect of potassium chloride and. Hooker. 1912-13, **4**, 443.
- content of the blood, The effects of sodium fluoride upon the calcium balance and the. Clark. (Proceedings) 1922, **19**, 254.
- , fluoride and chloride, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- , Notes on the treatment of gassed dogs with quinine, with atropine and with. Drugs after chlorine gassing. III. Barbour. 1920, **14**, 131.
- phosphate (precipitated), sodium fluoride, sodium chloride, "phosphate rock" and calcium carbonate (precipitated), Fluoride, chloride and calcium, including. Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- , The comparative toxicity of the chlorides of magnesium, potassium, sodium and. Joseph and Meltzer. 1910, **1**, 1.
- , The reaction of the cat's uterus to strophanthus and. Ransom. 1920, **15**, 181.
- , Toxicity of phosphates, in relation to tetany and blood. Binger. 1917-18, **10**, 105.
- Calorimetry, Animal. The influence of morphine upon heat production in the dog. Chanutin and Lusk. 1922, **19**, 359.
- Camphor, A note on the combined action of, and lack of oxygen upon the isolated mammalian heart, with an observation upon the direct action of lack of oxygen upon blood vessels. Richards. 1914-15, **6**, 73.
- , Experiments on the cardiac action of. Plant. (Proceedings) 1913-14, **5**, 513.
- , Experiments on the cardiac action of. Plant. 1913-14, **5**, 571.
- , On the toxicity of dextro-, laevo and inactive. Grove. 1910, **1**, 445.
- , The action of, on the circulation. Heard and Brooks. (Proceedings) 1914-15, **6**, 605.
- , The action of. Studies of the vasomotor centre. IV. Pilcher and Sollmann. 1914-15, **6**, 345.
- Cannaphoric acid, An experimental study of. Roth. 1910-11, **2**, 405.
- Cannabis-indica, Altered susceptibility to codeine, heroine, chloral-hydrate and, in dogs having an acquired tolerance for morphine. Cross tolerance. Myers. 1916, **8**, 417.
- Cannon, W. B., Aub, J. C., and Binger, Carl. A note on the effect of nicotine injection on adrenal secretion. 1911-12, **3**, 379.
- Cantwell, W., and Hirschfelder, A. D. Effects of some amino acids upon excised segments of intestine. (Proceedings) 1918, **11**, 178.
- Carbinol group, The relation of substitution in the, to the pharmacological action of some phenyl carbinols. Quigley and Hirschfelder. (Proceedings) 1921, **17**, 326.
- Carbon dioxide, On insufflation of the lungs with hydrogen, air and. Guthrie, Guthrie and Ryan. 1910-11, **2**, 49.
- dioxide, On insufflation of the lungs with hydrogen, air and. Guthrie. (Proceedings) 1910, **1**, 576.

- Carbon dioxide production of the mixed nerve fiber, The effect of cocaine hydrochloride on the. Niwa. 1919, **12**, 323.
- dioxide, The effect of caffeine on the reaction to, of the normal human respiratory mechanism. Grabfield and Means. 1917-18, **10**, 159.
- , dioxide, The effect of, upon the convulsant action of acid fuchsin in frogs. Joseph. (Proceedings) 1914-15, **6**, 603.
- dioxide therapy. Demonstration of a carbonator for quantitative. Henderson. (Proceedings) 1912-13, **4**, 353.
- monoxide, A direct method for, in blood. Kruse. (Proceedings) 1921, **17**, 332.
- monoxide, The elimination of, from the blood after a dangerous degree of asphyxiation, and a therapy for accelerating the elimination. Henderson and Haggard. 1921, **16**, 11.
- Carbonator, for quantitative carbon-dioxide therapy. Demonstration of. Henderson. (Proceedings) 1912-13, **4**, 353.
- Cardiac action of camphor, Experiments on the. Plant. (Proceedings) 1913-14, **5**, 513.
- action of camphor, Experiments on. Plant. 1913-14, **5**, 571.
- arrhythmias, The action of strychnine in. Smith. (Proceedings) 1917, **9**, 344.
- circulation, Convulsant action of acid fuchsin upon frogs deprived of their. Joseph and Meltzer. 1911-12, **3**, 183.
- inhibitory center, Analysis of the action of digitalis on the cardiac muscles and. Green, Boutwell and Peeler. (Proceedings) 1914-15, **6**, 598.
- irregularities, The action of strychnine in certain types of. Smith. 1917, **9**, 365.
- irritability, Digitalis on. Guthrie. (Proceedings) 1917, **9**, 342.
- muscle, Comparative effects of morphine and alkaloids of the benzylisoquinoline group on. Hanzlik. 1921, **17**, 445.
- muscle, The action of acetanilide on isolated. Carr. (Proceedings) 1910-11, **2**, 399.
- muscles, Analysis of the action of digitalis on the cardiac inhibitory center and the. Greene, Boutwell and Peeler. (Proceedings) 1914-15, **6**, 598.
- tissue, The mode of action of strophanthine upon. Clark. 1913-14, **5**, 215.
- Cardiotomized frogs, Convulsant action of acid fuchsin in, after removal of the anterior lymph hearts. Joseph. 1914-15, **6**, 83.
- frogs, On the action of drugs and the function of the anterior lymph hearts in. Abel. 1911-12, **3**, 581.
- frogs, On the influence of the lymph hearts upon the action of convulsant drugs in. Abel and Turner. 1914-15, **6**, 91.
- frogs with destroyed or inactive lymph heart, Distribution of solutions in. Githens and Meltzer. (Proceedings.) 1914-15, **6**, 607.
- Cardio-inhibitor center, Studies on the. Becht. (Proceedings) 1921, **17**, 336.
- inhibitory center, The central action of digitalis as tested by the. Greene and Peeler. 1915, **7**, 591.
- inhibitory center, The central action of digitalis, as tested by the. Greene and Peeler. 1915, **7**, 591.

- Carlson, A. J., Van de Erve, J., Lewis, J. H., and Orr, S. J. Contributions to the physiology of the stomach. XVI. Action of the so-called stomachics or bitters on the hunger mechanism. 1914-15, **6**, 209.
- , and Woelfel, A. The solubility of lead sulphide ores and of lead sulphide in human gastric juice. 1913-14, **5**, 549.
- Carminative action of volatile oils. Gunn. 1921, **16**, 39.
- volatile oils, The effect of, on the muscular movements of the intestine. Plant. 1921, **16**, 311.
- Carr, A. D. The effect of water diuresis on the elimination of certain urinary constituents. 1921, **18**, 221.
- Carr, Gloria. The action of acetanilide on isolated cardiac muscle. (Proceedings) 1910-11, **2**, 399.
- Carvacrol, Comparative toxicity of thymol and. Livingston. (Proceedings) 1920, **15**, 234.
- , Experiments with. Sollmann. 1920, **14**, 251.
- (isothymol), The comparative toxicity of thymol and. Livingston. 1921, **17**, 261.
- Cash, J. T., and Dilling, W. J. Physiological action of the oil and seeds of *Croton Elliotianus* from British East Africa. 1914-15, **6**, 235.
- Catalase production, The effect of pyretics and antipyretics on. Burge. 1920, **14**, 121.
- Catalases of the blood, The influence of saccharin on the. Becht. 1921, **16**, 155.
- Catha edulis* and its alkaloids, The pharmacological action of. Stockman. 1912-13, **4**, 251.
- Cells, Penetration of kations into living. Brooks. (Proceedings) 1922, **19**, 272.
- , The action of epinephrine and ergotoxin upon single, physiologically isolated. Barbour and Spaeth. 1917, **9**, 431.
- , The mechanism of. with special reference to the relations of electrolytes to. Stewart. 1910, **1**, 49.
- , The toxicity of martius yellow and some other aniline dyes and the entrance of dyes into. Mathews and Longfellow. 1910-11, **2**, 201.
- Central nervous system, Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the. Barbour and Abel. 1910-11, **2**, 167.
- nervous system, Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the. Barbour and Abel. (Proceedings) 1910-11, **2**, 404.
- nervous system, The effect of subarachnoid injections of antiseptics upon the. Wegeforth and Essick. 1919, **13**, 335.
- Cephaeline, Pharmacological studies on the ipecac alkaloids and some synthetic derivatives of. Studies on toxicity. I. Walters and Koch. 1917-18, **10**, 73.
- , Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of. II. Studies on emetic effect and irritation. Walters, Eckler and Koch. 1917-18, **10**, 185.
- , Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of. III. Studies on protozoöcidal and bactericidal action. Walters, Baker and Koch. 1917-18, **10**, 341.

- Cephalic coma, On the production of experimental. Jackson. 1912-13, **4**, 33.
- Cephalin, On the chemical composition and physiological characteristics of brain. Fenger. 1921, **18**, 51.
- Cerebellum, On the action of sodium citrate upon mammalia, with especial reference to acquired tolerance and to its action upon the. Robertson and Burnett 1911-12, **3**, 635.
- Cerebrum, A pharmacodynamic analysis of cocaine action on the. Macht and Bloom. (Proceedings) 1921, **17**, 331.
- Cervical sympathetic neuromuscular mechanisms, A study of the action of cocaine on the splanchnic and. Tatum. 1921, **16**, 109.
- Cevadin (veratrin), The effects of veratrum viride and. Studies on the vasomotor centre. XVIII. Pilcher and Sollmann. 1915, **7**, 295.
- Chace, A. F., and Fine, M. S. The uric acid concentration of the blood as influenced by atophan and radium emanation. 1914-15, **6**, 219.
- Chambers, R., Lillie, R. S., and Clowes, G. H. A. On the penetration of dichloroethylsulphide (mustard gas) into marine organisms, and the mechanism of its destructive action on protoplasm. 1920, **14**, 75.
- , Lillie, R. and Clowes, G. H. A. Penetration of mustard gas into protoplasm and its mode of action. (Proceedings) 1919, **13**, 505.
- Chanutin, Alfred, and Lusk, Graham. Animal calorimetry. The influence of morphine upon heat production in the dog. 1922, **19**, 359.
- Chaparro armagosa (Castela Nicholsoni of the family Simarubaceae), The treatment of amoebic dysentery with. Sellards and McIver. 1918, **11**, 331.
- Chase, C. S., and Schlomovitz, B. H. A signal-magnet controller. 1914-15, **6**, 561.
- , and Schlomovitz, B. H. Influence of temperature on the onset of strychnine convulsions in the intact frog. (Proceedings) 1916, **8**, 127.
- Chelidonine, Effects of, on smooth muscle. Hanzlik. 1915, **7**, 99.
- , Further observations on the pharmacology of. Hanzlik. (Proceedings) 1920, **15**, 236.
- , The effects of, on surviving organs. Hanzlik. (Proceedings) 1914-15, **6**, 596.
- , The pharmacology of, the benzylisoquinoline alkaloid of chelidonium (celandine or tetterwort) and stylophorum. Hanzlik. 1921, **18**, 63.
- Chelidonium (celandine or tetterwort), The pharmacology of chelidonine, the benzylisoquinoline alkaloid of, and stylophorum. Hanzlik. 1921, **18**, 63.
- Chemotherapeutic experiments, Primary serotal syphilis of the rabbit and its utilization in. Brown and Pearce. (Proceedings) 1917, **9**, 355.
- Chemotherapy, An investigation into the, of the acridine dyes in experimental tuberculosis. Smith. 1923, **20**, 419.
- of antimony. Comparison of the antimonyl tartrates with the organic compounds of antimony. Fargher and Gray. 1921, **18**, 341.
- , Quantitative studies in. I. The trypanocidal action of antimony compounds. Voegtlin and Smith. 1920, **15**, 453.
- , Quantitative studies in. II. The trypanocidal action of arsenic compounds. Voegtlin and Smith. 1920, **15**, 475.
- , Quantitative studies in. III. The oxidation of arsphenamine. Voegtlin and Smith. 1921, **18**, 199.

- Chemotherapy, Quantitative studies in. IV. The relative therapeutic value of arsphenamine and neoarsphenamine of different manufacture. Voegtlin and Smith. 1921, **16**, 449.
- , Quantitative studies in. V. Intravenous versus intramuscular administration of arsphenamine. Curative power and minimum effective dose. Voegtlin and Smith. 1921, **17**, 357.
- , Quantitative studies in. VI. Rate of excretion of arsenicals a factor governing toxicity and parasitocidal action. Voegtlin and Thompson. 1923, **20**, 85.
- , Quantitative studies in. VII. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. Voegtlin, Dyer and Miller. 1923, **20**, 129.
- , Quantitative studies in. Voegtlin and Smith. (Proceedings) 1920, **15**, 233.
- Chenopodium, A study of oil of, and its components. Livingston. (Proceedings) 1922, **19**, 266.
- , Further studies on the pharmacological action of oil of. Salant and Livingston. (Proceedings) 1916, **8**, 122.
- , oil of, and fatty oils, The production of renal changes by, and the protective action of diet on the kidney. Salant and Bengis. 1917, **9**, 529.
- , oil of, Investigations on the composition of, and the anthelmintic value of some of its components. Hall and Hamilton. 1918, **11**, 231.
- , The influence of the oil of, on the heart of the turtle. Salant and Battle. (Proceedings) 1921, **17**, 331.
- , The pharmacology of oil of. Salant. (Proceedings) 1910-11, **2**, 391.
- Chesney, A. M., and Moore, H. F. A study of ethylhydrocuprein (optochin) in lobar pneumonia. (Proceedings) 1917, **9**, 364.
- Chloral-hydrate, Altered susceptibility to codeine, heroine, cannabis-indica and, in dogs having an acquired tolerance for morphine. Cross tolerance. Myers 1916, **8**, 417.
- poisoning, Chronic. Wallace. (Proceedings) 1911-12, **3**, 462.
- , The action of, on the pupil. Hyatt, McGuigan and Rettig. 1920, **15**, 415
- Chloramines, An experimental study of the action of. Fantus and Smith. 1920, **14**, 259.
- Chloride, fluoride and calcium, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- , Inhibition of iodide absorption by. Hanzlik and Sollmann. (Proceedings) 1911-12, **3**, 473.
- Chlorides of magnesium, calcium, potassium and sodium, The comparative toxicity of. Joseph and Meltzer. 1910, **1**, 1.
- , The influence of diuresis on the elimination of urea, creatinine and. Marshall. 1921, **16**, 141.
- Chlorine antiseptics, Notes on the toxic effects of, in dogs. Barbour and Hjort. 1921, **18**, 201.
- gas, Some pathological phenomena following inhalation of. Schultz and Hunt. (Proceedings) 1918, **11**, 181.

- Chlorine gas, The reaction of the respiratory mechanism to. Schultz. (Proceedings) 1918, **11**, 180.
- gassing, Drugs after. I. The influence of morphine upon the fatality of chlorine poisoning. Barbour, Hjort and Taylor. 1920, **14**, 55.
 - gassing, Drugs after. II. Observations upon the treatment of gassed dogs with circulatory stimulants. Barbour. 1920, **14**, 61.
 - gassing, Drugs after. III. Notes on the treatment of gassed dogs with calcium, with quinine and with atropine. Barbour. 1920, **14**, 131.
 - poisoning, The influence of morphine upon the fatality of. Drugs after chlorine gassing. I. Barbour, Hjort and Taylor. 1920, **14**, 55.
 - , The effect of morphine upon the alkali reserve of the blood of dogs gassed with fatal concentrations of. Hjort and Taylor. 1919, **13**, 407.
 - , The effects of, upon isolated bronchi and pulmonary vessels. Barbour and Williams. 1920, **14**, 47.
 - , The effects of, upon the body temperature. Barbour. 1920, **14**, 65.
 - , The reaction of the heart toward. Schultz. (Proceedings) 1918, **11**, 179.
- Chloroform and ether anesthesia on the protein contents of the blood serum of rabbits, Effects of. Buck. 1913-14, **5**, 553.
- anesthesia, The irritability of motor nerves in. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
 - , Differences in the toxic effects, as observed under intratracheal insufflation, of ether and. Githens and Meltzer. (Proceedings) 1912-13, **4**, 355.
 - hyperglycemia, Effect of atropine on. Ross. 1920, **15**, 135.
 - poisoning, Metabolism in. Underhill and Kapsinow. (Proceedings) 1922, **19**, 262.
 - poisoning, The restoration of the frog's heart in. Ransom. 1920, **14**, 367.
 - , The action of. Studies on the vasomotor centre. V. Pilcher and Sollmann. 1914-15, **6**, 349.
 - , The modification of the action of adrenaline by. The action of adrenaline on the heart. III. Heinekamp. 1921, **16**, 247.
- Choline, Action of certain esters and ethers of, and their relation to muscarine. Dale. 1914-15, **6**, 147.
- and analogous compounds, Relation between the toxicity and chemical constitution of a number of derivatives of. Hunt and Taveau. 1910, **1**, 303.
 - , A physiological test for, and some of its applications. Hunt. 1915, **7**, 301.
 - , The action of salts of, on arterial blood pressure. Mendel, Underhill and Renshaw. 1911-12, **3**, 649.
 - , The action of. Studies on the vasomotor centre. XI. Pilcher and Sollmann. 1914-15, **6**, 381.
 - , The physiological action of salts of. Renshaw, Underhill and Mendel. (Proceedings) 1911-12, **3**, 457.
- Cinchona, The comparative action of the chief alkaloids of. Hale. (Proceedings) 1916, **8**, 122.
- Cinchonidine, The action of cinchonine, quinine and, on the isolated uterus. Hale. (Proceedings) 1914-15, **6**, 602.
- Cinchonine, The action of cinchonidine, quinine and, on the isolated uterus. Hale. (Proceedings) 1914-15, **6**, 602.

- Cinchophen, Observations on the action of, in human subjects with normal nucleic acid metabolism. Grabfield and Pratt. (Proceedings) 1922, **19**, 261.
- Circulation, Artificial cerebral, after circulatory isolation of the mammalian brain. Brown. 1916, **8**, 185.
- , Artificial cerebral, after circulatory isolation of the mammalian brain. Brown. (Proceedings) 1914-15, **6**, 603.
- , Concentrated salt solutions (sodium carbonate) injected into the. The action of drugs on the output of epinephrine from the adrenals. II. Stewart and Rogoff. 1919, **13**, 167.
- , Further observation on the action of caffeine on the. Salant. (Proceedings) 1912-13, **4**, 341.
- , Further observations on the effect of shutting off the arterial blood supply to the liver, the reaction of the normal animal to epinephrine, and removal of the liver from the. The rôle of the liver in acute polycythaemia. IV. Lamson. 1917, **9**, 129.
- in man in the head-down position, and a method for measuring the venous return to the heart. Henderson and Haggard. 1918, **11**, 189.
- in man, Studies on the. IV. The influence of oxygen inhalation on the circulation in a case of cyanosis. Stewart. 1910-11, **2**, 477.
- in man, Studies on the. XIV. The change produced in the bloodflow (in the hands) under the influence of digitalis in cases of auricular fibrillation. Stewart and Scott. 1915, **7**, 263.
- in man, Studies on the. XV. Further observations, chiefly pharmacological on the criteria by which deficiencies in the bloodflow (in the hands or feet) due to mechanical causes may be discriminated from changes due to functional (vasomotor) causes. Stewart. 1915, **7**, 281.
- , Liberator of free salicylic acid from salicylate in the. Hanzlik. (Proceedings) 1921, **17**, 329.
- , On the convulsant action of acid fuchsin upon frogs deprived of their cardiac. Joseph and Meltzer. 1911-12, **3**, 183.
- , and respiration, The influence of sodium citrate on. Studies on the pharmacology of sodium citrate. I. Salant and Kleitman. 1923, **20**, 481.
- , The action of camphor on the. Heard and Brooks. (Proceedings) 1914-15, **6**, 605.
- , The action of diphtheria toxin upon the. Yabe. 1922, **19**, 1.
- , The action of gum acacia on the. Bayliss. 1920, **15**, 29.
- , The action of tetramethyl ammonium chloride on the respiration and. Loevenhart. (Proceedings) 1913-14, **5**, 515.
- , The action of urea and of hypertonic solutions on the heart and. Eyster and Wilde. 1910, **1**, 391.
- , The actions of caffeine on the mammalian. I. The persistent effects of caffeine on the circulation. Sollmann and Pilcher. 1911-12, **3**, 19.
- time, The determination of the, in rabbits and dogs and its relation to the reaction time of the respiration to sodium cyanide. Loevenhart, Schlomovitz and Seybold. 1922, **19**, 221.
- , The effect of caffeine on the. Salant. (Proceedings) 1911-12, **3**, 468.
- , The effect of hematin on the respiration and. Brown and Loevenhart. (Proceedings) 1912-13, **4**, 347.

- Circulation, The effects of urea and hypertonic solutions on. Eyster. (Proceedings) 1910, **1**, 576.
- , The influence of forced breathing upon the. Henderson, Prince and Haggard. 1918, **11**, 203.
- , The influence of sodium tartrate on. Salant and Smith. (Proceedings) 1913-14, **5**, 515.
- , The liberation of free salicylic acid from salicylate in the. The salicylates. XIII. Hanzlik. 1921, **17**, 385.
- time in animals and man, The determination of. Loevenhart, Schlomovitz and Seybold. (Proceedings) 1920, **15**, 246.
- time, The determination of the, in dogs and rabbits and its relation to the reaction time of the respiratory center to sodium cyanide. Seybold, Loevenhart and Schlomovitz. (Proceedings) 1921, **17**, 345.
- Circulatory stimulants, Observations upon the treatment of gassed dogs with. Drugs after chlorine gassing. II. Barbour. 1920, **14**, 61.
- system, Observations on the changes in the, in periodic respiration. Clark and Hamill. 1913-14, **5**, 357.
- Citrate, Studies on tolerance and cumulation. Experiments with tartrate, oxalate and. Salant and Swanson. (Proceedings) 1917, **9**, 353.
- Citrates, Observations on the action of tartrates, oxalates and. A study in tolerance, cumulation and the effect of diet. Salant and Swanson. 1918, **11**, 133.
- , The pharmacology of. Salant and Kleitman. (Proceedings) 1922, **19**, 254.
- Citric acid as a constituent of normal human urine. Amberg and Maver. (Proceedings) 1919, **13**, 507.
- Clark, A. J. Absorption from the peritoneal cavity. 1921, **16**, 415.
- , The factors determining tolerance of glucosides of the digitalis series. 1912-13, **4**, 399.
- , The mode of action of potassium upon isolated organs. 1921, **18**, 423.
- , The mode of action of strophanthine upon cardiac tissue. 1913-14, **5**, 215.
- , The pharmacology of the snake's heart. 1912-13, **4**, 425.
- , and Hamill, P. Observations on the changes in the circulatory system in periodic respiration. 1913-14, **5**, 357.
- Clark, G. W. The effects of sodium fluoride upon the calcium balance and the calcium content of the blood. (Proceedings) 1922, **19**, 254.
- Clavin, Vahlen's active constituent of ergot. Van Slyke. 1910, **1**, 265.
- Closson, Oliver E. Time recorder for kymograph tracings. 1913-14, **5**, 235.
- Clotting during direct blood pressure experiments, A device for overcoming. MacCracken and Werness. 1917, **9**, 305.
- efficiency, of thromboplastic agents: A reply. Hanzlik. 1921, **16**, 35.
- efficiency of thromboplastic agents, Comments on the. Fenger. 1920, **15**, 167.
- efficiency of thromboplastic agents in vitro and their stability, The plasma and blood. Hanzlik and Weidenthal. 1920, **14**, 157.
- Clowes, G. H. A., Lillie, R. S., and Chambers, R. On the penetration of dichloroethylsulphide (mustard gas) into marine organisms, and the mechanism of its destructive action on protoplasm. 1920, **14**, 75.

- Clowes, Lillie, R., and Chambers, R. Penetration of mustard gas into protoplasm and its mode of action. (Proceedings) 1919, **13**, 505.
- , Marshall, E. K., Jr., and Smith, H. W. On dichloroethylsulfide (mustard gas): IV. The mechanism of absorption by the skin. 1919, **13**, 1.
- Coagulation time of blood in animals, A simple method for the determination of the. Inchley. 1921, **18**, 237.
- Cobra venom, Cumulative action of. Cushny. 1923, **20**, 233.
- Cocaine, aconitine, morphine, quinine. Drug perfusion of the medulla of the turtle. II. Bush. 1920, **15**, 173.
- action, A pharmacodynamic analysis of, on the cerebrum. Macht and Bloom. (Proceedings) 1921, **17**, 331.
- , A study of the action of, on the splanchnic and cervical sympathetic neuromuscular mechanisms. Tatum. 1921, **16**, 109.
- fever, The mechanism of. Barbour and Moise. (Proceedings) 1922, **19**, 270.
- hydrochloride, The effect of, on the CO₂ production of the mixed nerve fiber. Niwa. 1919, **12**, 323.
- intoxication in the rabbit. Mills. 1920, **14**, 355.
- , On the action of. Kuroda. 1915, **7**, 423.
- , Pharmacological studies with novocaine and. Roth. (Proceedings) 1917, **9**, 352.
- , The effects of strychnine, quinine and, on the vas deferens. Waddell. 1917, **9**, 279.
- Codeine, Altered susceptibility to heroin, cannabis-indica, chloral-hydrate and, in dogs having an acquired tolerance for morphine. Cross tolerance. Myers. 1916, **8**, 417.
- , The action of hydroxy-. Greenlees. 1912-13, **4**, 109.
- Cohen, S. J. The effect of lactic acid on the respiratory center. (Proceedings) 1918, **11**, 172.
- , The effect of lactic acid on the respiratory center. 1918, **11**, 221.
- Cohn, A. E. Further report on the action of digitalis on the T-wave of the electrocardiogram. (Proceedings) 1914-15, **6**, 606.
- , and Fraser, F. R. Certain effects of digitalis on the heart. (Proceedings) 1913-14, **5**, 512.
- , and Levy, R. L. Experiments dealing with certain effects of quinidine sulphate on the dog's heart. (Proceedings) 1922, **19**, 259.
- Collins, R. J. Further observations on the clinical actions of veratrum. (Proceedings) 1916, **8**, 128.
- , and Hanzlik, P. J. Colorimetric method for the estimation of free formaldehyde. (Proceedings) 1916, **8**, 130.
- , and Hanzlik, P. J. Further observations on the clinical actions of veratrum. 1918, **11**, 89.
- , and Hanzlik, P. J. Quantitative studies on the gastro-intestinal absorption of drugs. III. The absorption of alcohol. 1913-14, **5**, 185.
- Collodion, The effect of, on the amanitahemolysin. Ford. 1910, **1**, 269.
- Colloidal properties of arsphenamine and allied products, A study of the. Raiziss and Gavron. 1923, **20**, 163.
- properties of arsphenamine and allied products, Quantitative studies of the. Raiziss. (Proceedings) 1922, **19**, 271.

- Colloids, A comparison of the prophylactic effects of atropine and epinephrine in anaphylactic shock and anaphylactoid phenomena from arsphenamine and various. Hanzlik and Karsner. 1920, **14**, 425.
- , Anaphylactoid phenomena from the intravenous administration of various, arsenicals and other agents. Hanzlik and Karsner. 1920, **14**, 379.
- , Effects of various, and other agents which produce anaphylactoid phenomena on bronchi of perfused lungs. Hanzlik and Karsner. 1920, **14**, 449.
- , Effects of various, and other agents which produce anaphylactoid phenomena on surviving intestine and uterus. Hanzlik. 1920, **14**, 463.
- , On the influence of, on the action of non-colloidal drugs. I. Storm van Leeuwen. 1921, **17**, 1.
- , On the influence of, on the action of non-colloidal drugs. II. Storm van Leeuwen and Zeijdner. 1921, **17**, 121.
- , On the influence of, on the action of non-colloidal drugs. III. Storm van Leeuwen and von Szent-Györgyi. 1921, **18**, 257.
- , On the influence of, on the action of non-colloidal drugs. IV. Storm van Leeuwen and von Szent-Györgyi. 1921, **18**, 271.
- , On the influence of, on the action of non-colloidal drugs. V. A further analysis of the augmentor effect of lecithin on the action of pilocarpine. Storm van Leeuwen and von Szent Györgyi. 1923, **20**, 1.
- , The swelling of, and hydrogen ion concentration. Henderson, Palmer and Newburgh. 1913-14, **5**, 449.
- Colorimetric method for the estimation of free formaldehyde. Collins and Hanzlik. (Proceedings) 1916, **8**, 130.
- Colson, H., and Macht, D. I. The toxicity of digitalis for normal and vagotomized cats. (Proceedings) 1917, **9**, 343.
- Coma, On the production of experimental cephalic. Jackson. 1912-13, **4**, 33.
- Compensator, The action of epinephrine on vasomotors and heart beats studied separately by the artificial control of blood pressure by means of the. Brooks, McPeck and Seymour. (Proceedings) 1918, **11**, 168.
- Conessine, The action of holarrhenine and, the alkaloids of holarrhena congenensis and also of oxyconessine. Burn. 1914-15, **6**, 305.
- Connell anethetometer, The calibration of the Waller gas balance and the. Boothby and Sandiford. 1913-14, **5**, 369.
- Connet, Helene, and Salant, William. Some observations on the action of an isomer of caffeine. 1918, **11**, 81.
- , and Salant, William. The influence of heavy metals on the isolated frog heart. 1920, **15**, 217.
- , and Salant, William. The influence of heavy metals on the isolated heart. (Proceedings) 1920, **15**, 245.
- , Salant, William, and Livingston, A. E. Experiments with succinate and its hydroxy derivatives on the isolated frog heart. 1917-18, **10**, 129.
- Constrictor substances of serum, On the destruction of epinephrine and, by oxygenation in the presence of blood vessel walls. Tatum. 1912-13, **4**, 151.
- Convulsant action of acid fuchsin in cardiectomized frogs after removal of the anterior lymph hearts. Joseph. 1914-15, **6**, 83.
- , action of acid fuchsin in frogs, The effect of CO₂ upon the. Joseph. (Proceedings) 1914-15, **6**, 603.

- Convulsant action of acid fuchsin upon frogs deprived of their cardiac circulation. Joseph and Meltzer. 1911-12, **3**, 183.
- action of some dyes. Macht. (Proceedings) 1911-12, **3**, 471.
- action of some sulphonated dyes. Macht. 1911-12, **3**, 531.
- and anesthetic effects of gasoline vapor. Haggard. 1921, **16**, 401.
- drugs in cardiectomized frogs, On the influence of the lymph hearts upon the action of. Abel and Turner. 1914-15, **6**, 91.
- Convulsants, On the action of drugs and the function of the anterior lymph hearts in cardiectomized frogs. Abel. 1911-12, **3**, 581.
- Convulsions produced by heroin and strychnine, On the effect of sodium bicarbonate and sodium chloride upon the. Kleiner. (Proceedings) 1912-13, **4**, 357.
- , Some factors in the production of acid fuchsin, in frogs. Thomas. (Proceedings) 1921, **17**, 334.
- Convulsive reflex produced by strychnine, Studies on the. I. Habit. Mostrom and McGuigan. 1911-12, **3**, 515.
- reflex produced by strychnine, Studies on the. II. As modified by epinephrine. Mostrom and McGuigan. 1911-12, **3**, 521.
- Copenhaver, N. H., and Barbour, H. G. The response of the surviving uterus to morphine and scopolamine. 1915, **7**, 529.
- Copper salts of amino acids, The pharmacology and toxicology of. Studies on the biochemistry and chemotherapy of tuberculosis. XVI. Huber. 1918, **11**, 303.
- Cordyceps sinensis, Note on the physiological action of. Brewster and Alsberg. 1917-18, **10**, 277.
- Coriamyrtin, The pharmacological action of. Marshall. 1912-13, **4**, 135.
- Cornea, Anesthesia of rabbit's. Comparison of activity of local anesthetics. IV. Sollmann. 1918, **11**, 17.
- Coronary artery, The action of nitrites and drugs of the digitalis group on the isolated. Voegtlin and Macht. 1913-14, **5**, 77.
- vessels of the mammalian heart, On the vaso-constrictive action of serum on Yanagawa. 1916, **8**, 89.
- Corper, H. J., and Gauss, Harry. A preliminary note on the colorimetric estimation of morphine. (Proceedings) 1921, **17**, 343.
- Corpuscles, Plasma removal with return of. (Plasmapheresis). Abel, Rowntree and Turner. 1913-14, **5**, 625.
- Cotarnine, Action of hydrastine, hydrastinine emetine, some pyridine derivatives and, with a further analysis of the opium action. On the pharmacology of the ureter. IV. Macht. 1917, **9**, 287.
- , Local hemostatic properties of, and some other agents. Hanzlik. 1917-18, **10**, 523.
- , The action of hydrastis; its alkaloids hydrastine and berberin; and the derivatives of hydrastinine and. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- Cotton seed and some of its products, Comparative studies on the physiological value and toxicity of. Macy and Mendel. 1921, **16**, 345.
- seed meals, A poisonous principle in certain. Crawford. 1910, **1**, 519.
- seed poisoning, The relation of, to gossypol. Alsberg and Schwartze. (Proceedings) 1921, **17**, 344.

- Cow, Douglas. p-Acetyl-amido-ethoxy benzene. 1919, **12**, 343.
- Histamine and pituitary extract. 1920, **14**, 275.
- , The alkaloids of quebracho. 1913-14, **5**, 341.
- Cramer, William. On the action of veratrum viride. With some remarks on the interrelationship of the medullary centres. 1915, **7**, 63.
- Crane, M. M. The effect of hydrogen ion concentration on the toxicity of alkaloids for *Paramoecium*. 1921, **18**, 319.
- Crawford, A. C. A poisonous principle in certain cotton-seed meals. 1910, **1**, 519.
- A pressor compound from the pituitary gland. 1920, **15**, 81.
- Necrologue J. J. A. 1921, **18**, 1.
- , and Honn, H. V. Some convenient laboratory apparatus. 1910, **1**, 175.
- , and Watanabe, W. K. Does the pituitary gland contain epinephrine or a compound similar to it? 1916, **8**, 75.
- Creatine and creatinine, The elimination of, after the administration of caffeine. Salant and Rieger. (Proceedings) 1910-11, **2**, 400.
- Creatinine, The elimination after the administration of caffeine, of creatine and. Salant and Rieger. (Proceedings) 1910-11, **2**, 400.
- , The influence of diuresis on the elimination of urea, chlorides and. Marshall. 1921, **16**, 141.
- m-Cresol acetate, A study of the antiseptic and the pharmacological properties of. Greenwald. 1910-11, **2**, 531.
- Cresotinic acids, The therapeutical action of the. Stockman. 1912-13, **4**, 97.
- Crile, G. W., and Austin, J. B. Nitrous oxide sleep compared with normal sleep—brain cell studies. (Proceedings) 1912-13, **4**, 351.
- , and Menten, M. L. Comparison of anesthesia in plants possessing a motor mechanism and in animals. (Proceedings) 1911-12, **3**, 467.
- Cronyn, W. H., and Henderson, V. E. Ergot. 1910, **1**, 203.
- Croton Elliotianus, Physiological action of the oil and seeds of, from British East Africa. Cash and Dilling. 1914-15, **6**, 235.
- Crystalline pharmacological agents (two) obtained from the tropical toad, *Bufo agus*. Abel and Macht. 1911-12, **3**, 319.
- strophanthine, A clinical study of. Bailey. 1910, **1**, 349.
- Cumulation, A study in tolerance, effect of diet and. Observations on the action of tartrates, citrates and oxalates. Salant and Swanson. 1918, **11**, 133.
- , Studies on tolerance and. Experiments with citrate, tartrate and oxalate. Salant and Swanson. (Proceedings) 1917, **9**, 353.
- Curara. The action of drugs on the output of epinephrine from the adrenals. V. Stewart and Rogoff. 1920, **14**, 343.
- Curare, The central action of. McGuigan. 1916, **8**, 471.
- Curarin, On a difference between the effects of intravenous and intra-aortic injections in frogs of. Joseph and Meltzer. (Proceedings) 1911-12, **3**, 465.
- Cushny, Arthur R. Cumulative action of cobra venom. 1923, **20**, 233.
- Digitalis in auricular fibrillation. 1918, **11**, 103.
- On optical isomers. V. The tropeines. 1919, **13**, 71.
- On optical isomers. VI. The tropeines. 1920, **16**, 105.
- Optical isomers. VII. Hyoscines and hyoscyamines. 1921, **17**, 41.
- On the action of senecio alkaloids and the causation of the hepatic cirrhosis of cattle. (Pietou, Moleno, or Winton disease.) 1910-11, **2**, 531.

- Cushny, Arthur R. On the pharmacology of the respiratory centre. 1912-13, **4**, 363.
- , Quantitative observations on antagonism. 1914-15, **6**, 439.
- , and Gunn, J. A. The action of serum on the perfused heart of the rabbit. 1913-14, **5**, 1.
- , and Lieb, C. C. On the pharmacology of the respiratory center. II. 1914-15, **6**, 451.
- Cutaneous irritation by mustard oil as influenced by various solvents. Sollmann. 1918, **11**, 229.
- Cutting, R. A., and Tatum, A. L. The action of quinine on sugar mobilization with its bearing on the question of glycogenolysis. 1923., **20**, 393.
- Cyanide, The action of. Studies on the vasomotor centre. VI. Pilcher and Sollmann. 1914-15, **6**, 361.
- Cyanogen chloride, The mechanism of the toxic action of. Reed, 1920, **15**, 301.
- Cyanosis, The influence of oxygen inhalation on the circulation in a case of. Studies on the circulation in man. IV. Stewart. 1910-11, **2**, 477.
- Cytisine, the active alkaloid of laburnum (*cytissus-laburnum*), The physiological action of. Dale and Laidlaw. 1911-12, **3**, 205.
- Dale, H. H. Action of certain esters and ethers of choline, and their relation to muscarine. 1914-15, **6**, 147.
- , The anaphylactic reaction of plain muscle in the guinea-pig. 1912-13, **4**, 167.
- , The effect of varying tonicity on the anaphylactic and other reactions of plain muscle. 1912-13, **4**, 517.
- , and Burn, J. H. The action of certain quaternary ammonium bases. 1914-15, **6**, 417.
- , and Dobell, Clifford. Experiments on the therapeutics of amoebic dysentery. 1917-18, **10**, 399.
- , and Dudley, H. W. On the pituitary active principles and histamine. 1921, **18**, 27.
- , and Dudley, H. W. The physiological action of N-methylhistamine and of tetrahydropyrido-3.4-iminazole ("Imidazolisopiperidin" of Fränkel). 1921, **18**, 103.
- , and Laidlaw, P. P. A method of standardising pituitary (infundibular) extracts. 1912-13, **4**, 75.
- , and Laidlaw, P. P. The physiological action of cytisine, the active alkaloid of laburnum (*cytissus-laburnum*). 1911-12, **3**, 205.
- Dandy, W. E., and Rowntree, L. G. Peritoneal and pleural absorption. (Proceedings) 1911-12, **3**, 460.
- Davis, D. M., and Marshall, E. K., Jr. Influence of the adrenals on the kidneys. 1916, **8**, 525.
- , and Marshall, E. K., Jr. Influence of adrenals on the kidneys. (Proceedings) 1916, **8**, 111.
- Davis, L. H., and Ross, E. L. Effect of adrenaline and extracts of pancreas and liver on blood dextrose. 1923, **20**, 121.
- , and Ross, E. L. The source of blood serum diastases. (Proceedings) 1921, **17**, 347.

- Decerebrate rabbits, Paradoxical action of antipyrine in partially and completely Barbour and Deming. 1913-14, **5**, 149.
- Decerebration, The influence of, upon morphine tetanus in frogs. Githens. (Proceedings) 1912-13, **4**, 356.
- De Eds, Floyd, and Hanzlik, P. J. Influence of various factors on the excretion and decomposition of hexamethylenamine. (Proceedings) 1922, **19**, 247.
- , Hanzlik, P. J., and Presho, E. Urinary excretion of salicyl after the administration of salicylates and salicyl esters. (Proceedings) 1922, **19**, 248.
- Demethylation in the body, The influence of caffeine on protein metabolism in dogs with some remarks on. Salant and Phelps. (Proceedings) 1910-11, **2**, 401.
- of caffeine and theobromine under pathological conditions. Salant and Phelps. (Proceedings) 1911-12, **3**, 469.
- Deming, C. L., and Barbour, H. G. II. Paradoxical action of antipyrine in partially and completely decerebrate rabbits. 1913-14, **5**, 149.
- Denis, W. Influence of salicylates on the elimination of uric acid and other waste products from the blood. 1915, **7**, 255.
- Influence of some drugs used in the treatment of gout (and arthritis) on the elimination of uric acid and other waste products from the blood. 1915, **7**, 601.
- , and Means, J. H. The influence of salicylate on metabolism in man. 1916, **8**, 273.
- Depressants, Effects of vasomotor, upon the volume of the liver. Edmunds. 1921, **18**, 155.
- The mode of action of certain stimulants in increasing and of certain, in decreasing oxidation. Burge. 1919, **12**, 243.
- Depressor action of the vagus nerve in the cat, The influence of pituitrin upon the. Auer and Meltzer. (Proceedings) 1912-13, **4**, 359.
- and broncho-constrictor substance obtainable from the anterior and posterior lobes of the fresh pituitary gland, On the relative amounts of. Roca. 1921, **18**, 1.
- Devenis, N. M., and Barbour, H. G. Acetyl salicylic acid and heat regulation in normal individuals. (Proceedings) 1919, **13**, 499.
- DeWitt, L. M., Cadwell, S. M., and Leavell, G. Distribution of gold in animal tissues. Studies on the biochemistry and chemotherapy of tuberculosis. XVII. 1918, **11**, 357.
- Dextrose and water content of the blood, Relation of the, to antipyretic drug action. Barbour and Herrmann. 1921, **18**, 165.
- , Effect of adrenaline and extracts of pancreas and liver on blood. Ross and Davis. 1923, **20**, 121.
- Diabetes insipidus, Clinical and experimental studies in. Larson, Weir and Rowntree. (Proceedings) 1921, **17**, 333.
- Dialysis, On the removal of diffusible substances from the circulating blood of living animals by. II. Some constituents of the blood. Abel, Rowntree and Turner. 1913-14, **5**, 611.
- , Removal of diffusible substances from the circulating blood of living animals by. Abel, Rowntree and Turner. 1913-14, **5**, 275.
- Distastes, The source of blood serum. Davis and Ross. (Proceedings) 1921, **17**, 347.

- p-Dibrombenzene, Observations on p-dichlorbenzene and. Sollmann. 1920, **14**, 243.
- p-Dichlorbenzene, Observations on p-dibrombenzene and. Sollmann. 1920, **14**, 243.
- Dichloroethyl sulfide, The toxicity and skin irritant effect of certain derivatives of. Marshall and Williams. 1921, **16**, 259.
- Dichlorethylsulphide ("mustard gas") and other agents, The comparative skin irritant properties of. Hanzlik and Tarr. 1920, **14**, 221.
- , An apparatus for the exposure of skin or mucous membrane to the vapor of toxic substances, with observations on. Eyster and Maver. 1920, **15**, 95.
- (mustard gas), On the penetration of, into marine organisms, and the mechanism of its destructive action on protoplasm. Lillie, Clowes and Chambers. 1920, **14**, 75.
- (mustard gas), The minimum concentration of, effective for the eyes of man. Reed. 1920, **15**, 77.
- (mustard gas). I. The influence of solvents, adsorbents and chemical antidotes on the severity of the human skin lesions. Sollmann. 1919, **12**, 303.
- (mustard gas). II. The question of induced hypersusceptibility of the skin. Sollmann. 1919, **12**, 319.
- (mustard gas). III. Solubility and hydrolysis of dichlorethylsulphide. With a new method for estimating small amounts of the same. Hopkins. 1919, **12**, 393.
- (mustard gas). IV. The mechanism of absorption by the skin. Smith, Clowes and Marshall. 1919, **13**, 1.
- (mustard gas). I. The systemic effects and mechanism of action. Lynch, Smith and Marshall. 1919, **12**, 265.
- (mustard gas). II. Variations in susceptibility of the skin to dichlorethylsulphide. Marshall, Lynch and Smith. 1919, **12**, 291.
- Diet, A study in tolerance, cumulation and the effect of. Observations on the action of tartrates, citrates and oxalates. Salant and Swanson. 1918, **11**, 133.
- , The influence of, on the toxicity of sodium tartrate. Salant and Swanson. 1918, **11**, 27.
- , The production of renal changes by oil of chenopodium and fatty oils and the protective action of, on the kidney. Bengis and Salant. 1917, **9**, 529.
- , Protective action of, against renal irritants. Salant and Bengis. (Proceedings) 1917, **9**, 344.
- , The protective action of, against tartrate nephritis. Salant and Swanson. 1918, **11**, 43.
- Diets, The influence of fasting and various, on arsphenamine poisoning and the comparative toxicity of arsphenamine, neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide. Quantitative pathological studies with arsenic compounds. I. Hooper, Kolls and Wright. 1921, **18**, 133.
- Diethyl amino-propyl diphenyl amino-carbinol; para-aminobenzoyl dinormal butyl-amino ethanol and propanol. The effects of some new local anesthetics. Bonar and Sollmann. 1921, **18**, 467.
- Digestive tracts, The effect of epinephrine on excised strips of frogs'. Gruber. 1923, **20**, 321.

- Digitalis, A chemical method of assaying the active principles of. Knudson and Dresbach. 1923, **20**, 205.
- , An analysis of the action of, on the cardiac inhibitory center and on the cardiac muscles. Greene, Boutwell and Peeler. (Proceedings) 1914-15, **6**, 598.
- , A quantitative study of the effect of, on the heart of the cat. Robinson and Wilson. 1917-18, **10**, 491.
- and strophanthus, Action of. Studies on the vasomotor centre. XIV. Pilcher and Sollmann. 1914-15, **6**, 395.
- bodies, Studies in the elimination of certain of the, from the animal organism. Hatcher and Eggleston. 1919, **12**, 405.
- bodies, The emetic action of the. Hatcher and Eggleston. 1912-13, **4**, 113.
- Certain effects of, on the heart. Cohn and Fraser. (Proceedings) 1913-14, **5**, 512.
- , Clinical observations on the absorbability of purified tincture of. Scott. (Proceedings) 1921, **17**, 343.
- , Does atropine alter the effects of, upon the tonus of the heart muscle? Hirschfelder. (Proceedings) 1918, **11**, 177.
- , Effect of, in experimental auricular fibrillation. Hirschfelder. (Proceedings) 1914-15, **6**, 597.
- , Evidence for the presence in, of a principle that is eliminated rapidly after intravenous injection into the cat. Dooley. 1921, **17**, 277.
- , Further report on the action of, on the t-wave of the electrocardiogram. Cohn. (Proceedings) 1914-15, **6**, 606.
- group, A proposed method of chemically assaying active principles of the. Knudson and Dresbach. (Proceedings) 1922, **19**, 268.
- group including anaphylaxis, The effect upon some skeletal muscle in rabbits especially with regard to rigor, of the. Auer. (Proceedings) 1911-12, **3**, 464.
- group, The action of nitrites and drugs of the, on the isolated coronary artery. Voegtlin and Macht. 1913-14, **5**, 77.
- in auricular fibrillation. Cushny. 1918, **11**, 103.
- in cases of auricular fibrillation, The change produced in the bloodflow (in the hands) under the influence of. Studies on the circulation in man. XIV. Stewart and Scott. 1915, **7**, 263.
- , in experimental auricular fibrillation. Hirschfelder. (Proceedings) 1914-15, **6**, 597.
- on cardiac irritability. Guthrie. (Proceedings) 1917, **9**, 342.
- preparations, The pharmacological activity of. Pratt and Wesselhoeft. (Proceedings) 1916, **8**, 118.
- series, The factors determining tolerance of glucosides of the. Clark. 1912-13, **4**, 399.
- , Studies with American grown digitalis and digitalis lutea. White and Morris. (Proceedings) 1918, **11**, 184.
- , Tests of the pharmacological activity of American grown. Pratt and Morrison. (Proceedings) 1917, **9**, 341.
- , The central action of, as tested by the cardio-inhibitory center. Greene and Peeler. 1915, **7**, 591.

- Digitalis, The effect of high temperature upon the action and toxicity of. Hirschfelder, Bicek and Kucera. (Proceedings) 1920, **15**, 238.
- , The effect of high temperature upon the action and toxicity of. Hirschfelder, Bicek, Kucera and Hanson. 1920, **15**, 427.
- , The pharmaceutic chemistry of. Githens. (Proceedings) 1920, **15**, 245.
- , The seasonal and sex variations of *Rana pipiens* to. Hale. (Proceedings) 1911-12, **3**, 458.
- , The toxicity of, for normal and vagotomized cats. Macht and Colson. (Proceedings) 1917, **9**, 343.
- Diiodotyrosin, Pharmacological action and therapeutic behavior of. Studies concerning the iodine-containing principle of the thyroid gland. Strouse and Voegtlin. 1910, **1**, 123.
- Dilling, W. J. The constituents of *Lathyrus sativus* seeds and their action. 1920, **14**, 359.
- , and Cash, J. Physiological action of the oil and seeds of *Croton Elliotianus* from British East Africa. 1914-15, **6**, 235.
- Diphtheria toxin, The action of, upon the circulation. Yabe. 1922, **19**, 1.
- toxin, The action of, on the vaso-motor center. Porter and Pratt. (Proceedings) 1912-13, **4**, 352.
- toxin vs. ouabain Drug action as modified by disease toxins. I. Bush. 1919, **13**, 55.
- toxin, Vascular reactions in poisoning with. Myers and Wallace. (Proceedings) 1914-15, **6**, 601.
- Disease toxins, Drug action as modified by. I. Ouabain vs. diphtheria. Bush. 1919, **13**, 55.
- Distilled water, The stimulating action of, on the isolated uterus. Voegtlin and Lake. (Proceedings) 1917, **9**, 352.
- Diuresis, The effect of water, on the elimination of certain urinary constituents. Carr. 1921, **18**, 221.
- , The influence of, on the elimination of urea, creatinine and chlorides. Marshall. 1921, **16**, 141.
- , The relation of vascular conditions to pituitrin. Hoskins and Means. 1912-13, **4**, 435.
- , The vascular response of the kidney in acute uranium nephritis. The influence of the vascular response on. MacNider. (Proceedings) 1913-14, **5**, 520.
- , The vascular response of the kidney in acute uranium nephritis,—the influence of the vascular response on. MacNider. 1914-15, **6**, 123.
- Diuretics in uranium nephritis, A study of the action of various, with special reference to the part played by the anesthetic in determining the efficiency of the diuretic. MacNider. 1912-13, **4**, 491.
- , A study of the relative importance in the nephritic kidney of a responsive vascular mechanism, as compared with a functionally responsive epithelium in determining the efficiency of various. MacNider. (Proceedings) 1914-15, **6**, 599.
- in uranium nephritis, The action of. MacNider. (Proceedings) 1911-12, **3**, 459.

- Diuretics in uranium nephritis, Study of the action of various. MacNider. 1911-12, **3**, 423.
- , The secretion of urine and the action of, as influenced by blood flow and reduction of renal substance. Marshall and Kolls. (Proceedings) 1919, **13**, 507.
- Dixon, W. E., and Ransom, Fred. The effect on the respiration of altered vascular conditions in the lungs. 1913-14, **5**, 539.
- Dobell, Clifford, and Dale, H. H. Experiments on the therapeutics of amoebic dysentery. 1917-18, **10**, 399.
- Dooley, M. S. Evidence for the presence in digitalis of a principle that is eliminated rapidly after intravenous injection into the cat. 1921, **17**, 277.
- Douglas, Ethel, and Oliver, Jean. Biological reaction of arsphenamine. I. The mechanism of its agglutinative action on red blood cells. 1922, **19**, 187.
- Dresbach, Melvin. The physiological action of phenolphthalein oxine. 1911-12, **3**, 161.
- , and Knudson, Arthur. A chemical method of assaying the active principles of digitalis. 1923, **20**, 205.
- and Knudson, Arthur. A proposed method of chemically assaying active principles of the digitalis group. (Proceedings) 1922, **19**, 267.
- Drinker, C. K., and Richards, A. N. An apparatus for the perfusion of isolated organs. 1915, **7**, 467.
- Drug addiction, Experimental. Bonar and Sollmann. (Proceedings) 1920, **15**, 238.
- Dudley, H. W. Some observations on the active principles of the pituitary gland. 1920, **14**, 295.
- , and Dale, H. H. On the pituitary active principles and histamine. 1921, **18**, 27.
- , and Dale, H. H. The physiological action of N-methylhistamine and of tetrahydropyrido-3, 4-iminazole ("Imidazolisopiperidin" of Fränkel). 1921, **18**, 103.
- Dyer, H. A. and Voegtlin, Carl. On the therapeutic efficiency of silver arsphenamine sodium. (Proceedings) 1921, **17**, 329.
- , Voegtlin, Carl and Miller, D. W. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. (Proceedings) 1922, **19**, 258.
- , Voegtlin, Carl, and Miller, D. W. Quantitative studies in chemotherapy VII. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. 1923, **20**, 129.
- Dyes, acridine, in experimental tuberculosis, An investigation into the chemotherapy of the. Smith. 1923, **20**, 419.
- , On the convulsant action of some. Macht. (Proceedings) 1911-12, **3**, 471.
- , On the convulsant action of some sulphonated. Macht. 1911-12, **3**, 531.
- , The absorption and elimination of different. Salant and Bengis. (Proceedings) 1916, **8**, 119.
- , The toxicity of martius yellow and some other aniline dyes and the entrance of, into cells. Mathews and Longfellow. 1910-11, **2**, 201.

- Dysentery, Experiments on the therapeutics of amoebic. Dale and Dobell. 1917-18; **10**, 399.
- , The treatment of amoebic, with chaparro armagosa (*Castela Nicholsoni* of the family Simarabaceae). Sellards and McIver. 1918, **11**, 331.
- Eagan, J. T., and Hjort, A. M. Benzylcarbinol: A local anesthetic. 1920, **14**, 211.
- Eckler, C. R., Walters, A. L., and Koch, E. W. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. II. Studies on emetic effect and irritant action. 1917-18, **10**, 185.
- Eck's fistula. Anastomosis between the portal vein and the inferior vena cava. Bernheim, Homans and Voegtlin. 1910, **1**, 463.
- Edema, (adrenin pulmonary) in the rabbit, A respiratory factor in the production of. Gates and Auer. (Proceedings) 1917, **9**, 361.
- of para-phenylenediamine. Gibbs. 1923, **20**, 221.
- , Salicylate. Scott, Reyeraft and Hanzlik. (Proceedings) 1917, **9**, 348.
- Edmunds, C. W. A simple liver plethysmograph. (Proceedings) 1913-14, **5**, 520.
- , Anaphylaxis in the cat and opossum. (Proceedings) 1913-14, **5**, 518.
- , Effects of vasomotor depressants upon the volume of the liver. 1921, **18**, 155.
- , Further observations on vasomotor changes in the liver. (Proceedings) 1920, **17**, 347.
- , Further study of the relation of the adrenals to pancreatic activity. 1910-11, **2**, 559.
- , Some vasomotor reactions of the liver. (Proceedings) 1914-15, **6**, 606.
- , Some vasomotor reactions of the liver, with special reference to the presence of vasomotor nerves to the portal vein. 1915, **6**, 569.
- , Studies in tolerance, I.—nicotine and lobeline 1910, **1**, 27.
- , The action of pilocarpine upon sympathetic nerve endings. (Proceedings) 1922, **19**, 271.
- , The antagonism of the adrenal glands against the pancreas. 1910, **1**, 135.
- , The importance of the adrenal glands in the action of pilocarpine, physostigmine and strychnine. 1923, **20**, 405.
- , The inhibition of the pancreas. (Proceedings) 1910, **1**, 571.
- , The point of attack of certain drugs on the periphery. II. Action on the retractor penis muscle of the dog. 1920, **15**, 201.
- , Upon the action of protein poison. (Proceedings) 1911-12, **3**, 461.
- , and Hale, Worth. Physiological assay of ergot. (Proceedings) 1910-11, **2**, 393.
- , and Roth, G. B. The point of attack of certain drugs acting on the periphery. I. Action on the bladder. 1920, **15**, 189.
- , and Smith, M. I. Further studies in nicotine tolerance. (Proceedings) 1916, **8**, 131.
- Eggleston, Cary. The antagonism between atropine and certain central emetics. 1917, **9**, 11.
- , and Hatcher, R. A. A contribution to the pharmacology of novocaine. 1916, **8**, 385.

- Eggleston, Cary and Hatcher, R. A. A further contribution to the pharmacology of the local anesthetics. 1919, **13**, 433.
- , and Hatcher, R. A. Behavior of strychnine in the animal body. (Proceedings) 1917, **9**, 359.
- , and Hatcher, R. A. Studies in the absorption of drugs. (Proceedings) 1913-14, **5**, 516.
- , and Hatcher, R. A. Studies in the elimination of certain of the digitalis bodies from the animal organism. 1919, **12**, 405.
- , and Hatcher, R. A. The emetic action of the digitalis bodies. 1912-13, **4**, 113.
- , Hatcher, Robert A. The fate of strychnine in the body. 1917-18, **10**, 281.
- , and Hatcher, R. A. The seat of the emetic action of apomorphine. 1911-12, **3**, 551.
- , and Hatcher, R. A. The seat of the emetic action of various drugs. 1915, **7**, 225.
- Eisenbrey, A. B., and Pearce, R. M. A study of the action of the heart in anaphylactic shock in the dog. 1912-13, **4**, 21.
- Electric current, The influence of the, on the absorption of drugs. Inchley. 1921, **18**, 241.
- Electrocardiogram, Further report on the action of digitalis on the T-wave of the. Cohn. 1914-15, **6**, 606.
- in morphine poisoning in the dog. Eyster and Meek. (Proceedings) 1911-12, **3**, 468.
- The action of certain drugs on the. Eyster and Meek. (Proceedings) 1912-13, **4**, 343.
- Electrolytes, The mechanism of haemolysis with special reference to the relations of, to cells. Stewart. 1910, **1**, 49.
- Emetic action of apomorphine, The seat of the. Eggleston and Hatcher. 1911-12, **3**, 551.
- action of the digitalis bodies. Hatcher and Eggleston. 1912-13, **4**, 113.
- action of various drugs, Seat of the. Eggleston and Hatcher. 1915, **7**, 225.
- action, The seat of the, of apomorphine. Eggleston and Hatcher. 1911-12, **3**, 551.
- effect and irritant action, Studies on II. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. Walters, Eckler and Koch. 1917-18, **10**, 185.
- Emetics, The antagonism between atropine and certain central. Eggleston. 1917, **9**, 11.
- Emetine, Action of hydrastine, hydrastinine, cotarnine, some pyridine derivatives and, with a further analysis of the opium action. On the pharmacology of the ureter. IV. Macht. 1917, **9**, 287.
- derivatives, The action of certain, on amoebae. Pyman and Wenyon. 1917-18, **10**, 237.
- hydrochloride, On the toxicity of various commercial preparations of. Levy and Rowntree. (Proceedings) 1916, **8**, 120.
- , The effect of, on *Entamoeba histolytica* in stools. Allan. 1921, **16**, 21.
- Emge, L. A., and Jensen, J. P. The effect of benzyl benzoate on the leucocytes of the rabbit. 1921, **17**, 415.

- Emmenagogue oils, The action of so-called, on the isolated uterine strip. Macht. 1912-13, **4**, 547.
- oils, The action of the, on the human uterus. Gunn. 1921, **16**, 485.
- Endermic reactions. Pilcher and Sollmann. (Proceedings) 1917, **9**, 350.
- reactions. I. Sollmann and Pilcher. 1917, **9**, 309.
- reactions. II. Urticaria by amins and aromatic and urea derivatives. Sollmann. 1917, **9**, 391.
- reactions. III. Further experiments on local urticaria. Sollmann. 1917-18, **10**, 147.
- Entamoeba Histolytica in stools, The effect of emetine on. Allan. 1921, **16**, 21.
- Entero-hepatitis (blackhead), infectious, in turkeys, Observations on the effect of ipecac in the treatment of. Wegeforth and Wegeforth. 1921, **17**, 249.
- Epinephrine. McGuigan and Mostrom. 1912-13, **4**, 277.
- , A comparison of the prophylactic effects of atropine and, in anaphylactic shock and anaphylactoid phenomena from various colloids and arsphenamine. Hanzlik and Karsner. 1920, **14**, 425.
- , A consideration of some biologic tests for. Hoskins. 1911-12, **3**, 93.
- , Action of. Studies of the vasomotor centre. III. Pilcher and Sollmann. 1914-15, **6**, 339.
- , Action of certain drugs on the output of, from the adrenals. Stewart and Rogoff. (Proceedings) 1919, **13**, 513.
- , Action of ergotoxin, nicotine and of. On the pharmacology of the ureter. I. Macht. 1916, **8**, 155.
- content, Influence of arsphenamine and neoarsphenamine on the, of the adrenal glands. Lucke, Kolmer and McCouch. 1923, **20**, 153.
- , Demonstration by the use of arterial rings of the inhibitory action of certain drugs on the vaso-constriction produced by. Macht. 1914-15, **6**, 591.
- , Demonstration that the spontaneously liberated, can exert an action upon the heart. Stewart and Rogoff. 1919, **13**, 397.
- , Does the pituitary gland contain, or a compound similar to it? Watanabe and Crawford. 1916, **8**, 75.
- , Effect of, on the medullary centers. Brown. 1916, **8**, 195.
- , Further observations on the effect of shutting off the arterial blood supply to the liver, the reaction of the normal animal to, and removal of the liver from the circulation. The rôle of the liver in acute polycythaemia. IV. Lamson. 1917, **9**, 129.
- , Further studies on the antagonistic action of, to certain drugs upon the tonus and tonus waves in the terrapin auricles V. Gruber. 1921, **16**, 405.
- hyperglycemia. Tatum. (Proceedings) 1921, **17**, 336.
- hyperglycemia. I. Tatum. 1921, **17**, 395.
- hyperglycemia. II. Tatum. 1921, **18**, 121.
- in the blood, The action of glandular extracts upon the amount of. Ott and Scott. 1911-12, **3**, 625.
- in blood, The proportion in which adrenaline distributes itself between corpuscles and serum in relation to the technique of testing for. Stewart and Rogoff. 1917, **9**, 393.
- , Liberation of, from the adrenal glands by stimulation of the splanchnic nerves and by massage. Stewart, Rogoff and Gibson. 1916, **8**, 205.

- Epinephrine, On the destruction of constrictor substances of serum and, by oxygenation in the presence of blood vessel walls. Tatum. 1912-13, **4**, 151.
- , On the duration of constriction of bloodvessels by. Meltzer and Auer. 1921, **17**, 177.
- , Perfusion of the medulla of the turtle. III. Bush. 1920, **15**, 297.
- , Quantitative experiments on the liberation of, from the adrenals after section of their nerves, with special reference to the question of the indispensability of epinephrine for the organism. Stewart and Rogoff. 1917-18, **10**, 1.
- , Spontaneous liberation of, from the adrenals. Stewart and Rogoff. 1916, **8**, 479.
- , Studies on the convulsive reflex produced by strychnine. II. As modified by. Mostrom and McGuigan. 1911-12, **3**, 521.
- , The action of caffeine and, upon the vagus nerve. Barbour and Kleiner. 1915, **7**, 541.
- , The action of drugs upon the output of, from the adrenals. I. Strychnine. Stewart and Rogoff. 1919, **13**, 95.
- , The action of drugs on the output of, from the adrenals. II. Concentrated salt solutions (sodium carbonate) injected into the circulation. Stewart and Rogoff. 1919, **13**, 167.
- , The action of drugs on the output of, from the adrenals. III. Nicotine. Stewart and Rogoff. 1919, **13**, 183.
- , The action of drugs on the output of, from the adrenals. IV. Strophanthine. Stewart and Rogoff. 1919, **13**, 361.
- , The action of drugs on the output of, from the adrenals. V. Curara. Stewart and Rogoff. 1920, **14**, 343.
- , The action of drugs on the output of, from the adrenals. VI. Atropine; pilocarpine. Stewart and Rogoff. 1921, **16**, 71.
- , The action of drugs on the output of, from the adrenals. VII. Physostigmine. Stewart and Rogoff. 1921, **17**, 227.
- , The action of drugs on the output of, from the adrenals. VIII. Morphine. Stewart and Rogoff. 1922, **19**, 59.
- , The action of ergotoxin and, upon single, physiologically isolated cells. Spaeth and Barbour. 1917, **9**, 431.
- , The action of, on vasomotors and heart beats studied separately by the artificial control of blood pressure by means of the compensator. Brooks, McPeck and Seymour. (Proceedings) 1918, **11**, 168.
- , The antagonistic actions of potassium chloride and, on the tonus and tonus waves in the excised terrapin auricles. IV. Gruber. 1920, **15**, 271.
- , The effect of emotional stimuli and, on the red corpuscle content of the blood in rabbits. The rôle of the liver in acute polycythaemia. II. Lamson. 1916, **8**, 167.
- , The effect of, on excised strips of frogs' digestive tracts. Gruber. 1923, **20**, 321.
- , The effect of pituitrin and, upon the blood vessels when injected subcutaneously in the ear of a rabbit. Auer and Meltzer. (Proceedings) 1919, **13**, 511.
- , The influence of asphyxia upon the rate of liberation of, from the adrenals. Stewart and Rogoff. 1917-18, **10**, 49.

- Epinephrine, The influence of veratrine and, on skeletal muscle. Kruse. (Proceedings) 1922, **19**, 266.
- , The primary depression and secondary rise in blood pressure caused by. McGuigan and Hyatt. 1919, **12**, 59.
- , the reaction to, administered by rectum. Hoskins. 1921, **18**, 207.
- Epithelium, A study of the relative importance in the nephritic kidney of a responsive vascular mechanism, as compared with a functionally responsive, in determining the efficiency of various diuretics. MacNider. (Proceedings) 1914-15, **6**, 599.
- Ergot and its constituents, ergotoxin, and histamine, The action of. Studies on the vasomotor centre. XII. Pilcher and Sollmann. 1914-15, **6**, 385.
- , Clavin, Vahlen's active constituent of. Van Slyke. 1910, **1**, 265.
- , Cronyn and Henderson. 1910, **1**, 203.
- , Further observations on the action of. Salant and Hecht. (Proceedings) 1913-14, **5**, 517.
- , The biological and chemical assay of. Wood. (Proceedings) 1910, **1**, 574.
- , Physiological assay of. Edmunds and Hale. (Proceedings) 1910-11, **2**, 393.
- Ergotoxin, Action of epinephrine, nicotine and of. On the pharmacology of the ureter. I. Macht. 1916, **8**, 155.
- and histamine, The action of ergot and its constituents. Studies on the vasomotor centre. XII. Pilcher and Sollmann. 1914-15, **6**, 385.
- , The action of epinephrine and, upon single, physiologically isolated cells. Spaeth and Barbour. 1917, **9**, 431.
- , The effect of, on the temperature of rabbits. Githens. (Proceedings) 1917, **9**, 360.
- , The influence of, on body temperature. Githens. 1917-18, **10**, 327.
- Errico, Louis, and Underhill, F. P. The influence of purgatives upon blood concentration. 1922, **19**, 135.
- Erythrocytes per unit volume of blood, The relation of plasma volume to the number of. The rôle of the liver in acute polycythaemia. III. Lamson and Keith. 1916, **8**, 247.
- Essick, C. R., and Wegeforth, Paul. The effect of subarachnoid injections of antiseptics upon the central nervous system. 1919, **13**, 335.
- Ether anesthesia, Effects of chloroform and, on the protein contents of the blood serum of rabbits. Buck. 1913-14, **5**, 553.
- anesthesia, The nature of the cessation of respiration in deep. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
- , Differences in the toxic effects, as observed under intratracheal insufflation of chloroform and. Githens and Meltzer. (Proceedings) 1912-13, **4**, 355.
- hyperglycemia, Effect of atropine on. Ross. 1919, **12**, 377.
- hyperglycemia, Further observations on, in the absence of the adrenals. Stewart and Rogoff. (Proceedings) 1920, **15**, 238.
- inhalation, The effect of, upon the skeletal motor mechanism. Auer and Meltzer. (Proceedings) 1913-14, **5**, 521.
- , The action of, on an anaerobic animal tissue. Mathews. 1910-11, **2**, 231.
- , The action of. Studies on the vasomotor centre. XV. Pilcher and Sollmann. 1914-15, **6**, 401.

- Ether, The control of strychnine poisoning by means of insufflation and. Githens and Meltzer. (Proceedings) 1910-11, **2**, 404.
- , The control of strychnine poisoning by means of intratracheal insufflation and. Githens and Meltzer. 1910-11, **2**, 357.
- vapor, Further observations on the anesthetic tension of. Boothby. (Proceedings) 1916, **8**, 115.
- vapor in man, The determination of the anesthetic tension of. Boothby. 1913-14, **5**, 379.
- vapor in man, The determination of the anesthetic tension of, with some theoretical deductions as to the mode of action of the common volatile anesthetics. Boothby. (Proceedings) 1913-14, **5**, 525.
- Ethyl alcohol, Perfusion of the mammalian medulla: note on the action of. Hooker. 1917-18, **10**, 121.
- ester of paramethylphenylcinchoninic acid, Studies on the influence of phenyleinchoninic acid and, on renal excretion. Myers and Killian. 1921, **18**, 213.
- Ethylhydrocuprein hydrochloride, Route of administration of drugs in relation to toxicity in chemotherapeutic investigations with special reference to intrapleural injections of. Kolmer. 1921, **17**, 431.
- (optochin) and quinine, Comparative pharmacologic action of. Smith and Fantus. 1916, **8**, 53.
- (optochin) in lobar pneumonia. Moore and Chesney. (Proceedings) 1917, **9**, 364.
- Eucaine, alypine, holocaine, novocaine, and stovaine on the bladder. Waddell. 1917-18, **10**, 243.
- Ewing, E. M. The effects of pilocarpine and atropine upon the amylolytic power and composition of the saliva. 1911-12, **3**, 1.
- Ewins, A. J. A new water soluble active constituent of squills. 1911-12, **3**, 155.
- Exophthalmic goiter and other conditions involving the thyroid, Attempt to detect thyroid secretion in blood obtained from the glands of individuals with. Rogoff and Goldblatt. 1921, **17**, 473.
- Expectorants. Henderson and Taylor. 1910-11, **2**, 153.
- Eyes of man, The minimum concentration of dichlorethylsulphide (mustard gas) effective for the. Reed. 1920, **15**, 77.
- Eyster, J. A. E. The effects of urea and hypertonic solutions on the circulation. (Proceedings) 1910, **1**, 576.
- , and Loevenhart, A. S. An apparatus for the perfusion of isolated organs especially the isolated mammalian heart. 1913-14, **5**, 57.
- , and Loevenhart, A. S. The effect of certain oxidizing substances and of acids and alkalies on the isolated mammalian heart. 1914, **5**, 21.
- , and Maver, M. E. An apparatus for the exposure of skin or mucous membrane to the vapor of toxic substances, with observations on dichlorethylsulphide. 1920, **15**, 95.
- , and Meek, W. J. The action of certain drugs on the electrocardiogram. (Proceedings) 1912-13, **4**, 343.
- , and Meek, W. J. The electrocardiogram in morphine poisoning in the dog. (Proceedings) 1911-12, **3**, 408.
- , and Wilde, A. G. The action of urea and of hypertonic solutions on the heart and circulation. 1910, **1**, 391.

- Falk, K. G., and Sugiura, Kanematsu. Some observations on the elimination of hexamethylenetetramine (urotropine). 1916, **8**, 39.
- , and Sugiura, Kanematsu. Some observations on the elimination of hexamethylenetetramine (urotropine). (Proceedings) 1916, **8**, 128.
- , and Sugiura, Kanematsu. The elimination of hexamethylenetetramine (urotropine) as an index of renal function. 1917, **9**, 241.
- Fantus, Bernard, and Smith, M. I. An experimental study of the action of chloramines. 1920, **14**, 259.
- , and Smith, M. I. The comparative pharmacologic action of ethylhydrocuprein (optochin) and quinine. 1916, **8**, 53.
- Faradic sensibility, The effect of certain drugs upon. Hale and Grabfield. (Proceedings) 1922, **19**, 262.
- Fargher, R. G., and Gray, W. H. The chemotherapy of antimony. Comparison of the antimonyl tartrates with the organic compounds of antimony. 1922, **18**, 341.
- Fasting and various diets, The influence of, on arsphenamine poisoning, and the comparative toxicity of arsphenamine, neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide. Quantitative pathological studies with arsenic compounds. Hooper, Kolls and Wright. 1921, **18**, 133.
- Fat soluble substance, Observations upon the intraperitoneal injection of fixed oil as a vehicle for administering. Schwartz. (Proceedings) 1920, **15**, 240.
- Fatty oils and oil of chenopodium, The production of renal change and the protective action of diet on the kidney. Salant and Bengis. 1917, **9**, 529.
- Feiss, H. O., and Marine, David. The absorption of potassium iodide by perfused thyroid glands and some of the factors modifying it. 1915, **7**, 557.
- Fenger, Frederic. Comments on the clotting efficiency of thromboplastic agents. 1920, **15**, 167.
- , On the chemical composition and physiological characteristics of brain cephalin. 1921, **18**, 51.
- Ferguson, Charles, and Meyers, H. B. Systemic interaction of iodine and thio-sulphate. (Proceedings) 1921, **17**, 347.
- Fetterman, Joseph, Hanzlik, P. J., and Karsner, H. T. Anaphylactoid phenomena from thromboplastic agents. 1920, **14**, 229.
- Fibrous nodules, Iodine: effect on. Sollmann. 1919, **13**, 495.
- Fine, M. S., and Chace, A. F. Uric acid concentration of the blood as influenced by atophan and radium emanation. 1914-15, **6**, 219.
- Fisher, H. G., and Macht, D. I. On the toxic action of opium alkaloids individually and in combination with each other on paramyelia. 1917-18, **10**, 95.
- Fitz, R., and Rowntree, L. G. Renal function in experimental passive congestion. (Proceedings) 1912-13, **4**, 349.
- , and Rowntree, L. G. Studies of renal function in experimental nephritides. (Proceedings) 1911-12, **3**, 460.
- , and Rowntree, L. G. The effect of temporary occlusion of renal circulation on renal function. (Proceedings) 1912-13, **4**, 349.
- Fleisher, M. S., and Strickler, A. The influence of intravenous injections of spar-teine and adrenaline on the heart of the dog. 1910-11, **2**, 55.
- Fluorescein and its derivatives. Salant and Bengis. (Proceedings) 1917, **9**, 344.

- Fluoride, chloride and calcium, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- Folin, Otto, and Lyman, Henry. On the influence of phenylquinolin carbonic acid (atophan) on the uric acid elimination. 1912-13, **4**, 539.
- Ford, W. W. Further observations on fungi including species of *amanita*, *inocybe*, *volvaria*, and *gyrophragmium*. 1914-15, **6**, 205.
- , Further observations on the immunisation of animals to the poisons in fungi. 1910-11, **2**, 145.
- , Observations on three fungi not previously supposed to be poisonous. (Proceedings) 1912-13, **4**, 350.
- , On the toxicology of the *tutu* plant. 1910-11, **2**, 73.
- , The distribution of haemolysins, agglutinins, and poisons in fungi, especially the *amanitas*, the *entolomas*, the *lactarius* and the *inocybes*. 1910-11, **2**, 285.
- , The distribution of poisons in the *amanitas*. 1910, **1**, 275.
- , The effect of collodion on the *amanita*-hemolysin. 1910, **1**, 269.
- , and Bronson, Edith. Note on the *amanita*-toxin. 1912-13, **4**, 241.
- , and Brush N. H. Note on the properties of fungi gathered in France. 1914-15, **6**, 191.
- , and Brush, N. H. The action of *amanita phalloides* and other *amanitas* upon the frog's heart. 1914-15, **6**, 195.
- , and Prouty, I. H. Note on the *amanita*-toxin. 1910, **1**, 389.
- , and Rockwood, E. M. Mode of union between the *amanita*-hemolysin and its anti-hemolysin. 1912-13, **4**, 235.
- , and Sherrick, J. L. Further observations on fungi, particularly *clitocybe sudorifica* Peck, *pholiota autumnalis* Peck, and *inocybe decipiens* Bresadola. 1912-13, **4**, 321.
- , and Sherrick, J. L. On the properties of several species of the *polyporaceae* and of a new variety of *clitocybe*, *Clitocybe dealbata sudorifica* Peck. 1910-11, **2**, 549.
- Formaldehyde, Colorimetric method for the estimation of free. Collins and Hanzlik. (Proceedings) 1916, **8**, 130.
- , The liberation from hexamethylenamine in pathological fluids of. Hanzlik. (Proceedings) 1913-14, **5**, 518.
- Formic and acetic acids. Studies of chronic intoxications on albino rats. III. Sollmann. 1921, **18**, 463.
- Frankel, E. M., and Barbour, H. G. The action of phenylethylamine on the heart. 1915, **7**, 511.
- Fraser, F. R., and Cohn, A. E. Certain effects of digitalis on the heart. (Proceedings) 1913-14, **5**, 512.
- Fraser, T. R. A contribution to the pharmacology of *aconitum heterophyloides*, *A. napellus* and *A. napellus*. 1917, **9**, 43.
- , Necrologue A. R. C. 1920, **15**, 95.
- Friedlander, Alfred, Lawrence, J. V. and Jackson, D. E. Observations on the pharmacological action of quinidine. (Proceedings) 1922, **19**, 263.

- Fungi, Further observations on the immunisation of animals to the poisons in. Ford. 1910-11, **2**, 145.
- , Further observations on, particularly *clitocybe sudorifica* Peck, *pholiota autumnalis* Peck, and *inocybe decipiens bresadola*. Ford and Sherrick. 1912-13, **4**, 321.
- gathered in France, Note on the properties of. Ford and Brush. 1914-15, **6**, 191.
- including species of *amanita*, *inocybe*, *volvaria* and *gyrophragmium*, Further observations on. Ford. 1914-15, **6**, 205.
- Mode of union between the *amanita*-hemolysin and its antihemolysin. Ford and Rockwood. 1912-13, **4**, 235.
- not previously supposed to be poisonous, Observations on three. Ford. (Proceedings) 1912-13, **4**, 350.
- Note on the *amanita*-toxin. Ford and Bronson. 1912-13, **4**, 241.
- Note on the *amanita*-toxin. Ford and Prouty. 1910, **1**, 389.
- On the properties of several species of the *polyporaceae* and of a new variety of *clitocybe*, *Clitocybe dealbata sudorifica* Peck. Ford and Sherrick. 1910-11, **2**, 549.
- The action of *amanitas phalloides* and other *amanitas* upon the frog's heart. Ford. 1914-15, **6**, 195.
- , The distribution of haemolysins agglutinins and poisons in, especially the *amanitas*, the *entolomas*, the *lactarius* and the *inocybes*. Ford. 1910-11, **2**, 285.
- The distribution of poisons in the *amanitas*. Ford. 1910, **1**, 275.
- The effect of collodion on the *amanita*-hemolysin. Ford. 1910, **1**, 269.
- Gall-bladder, Action of drugs on the isolated. Lieb and McWhorter. 1915, **7**, 83.
- bladder, On the comparative effects of the opium alkaloids individually and in combination with each other on the. Macht. 1917, **9**, 473.
- Gangliectomy, Is the dilatation of the pupil following, due to vaso-dilatation? Githens and Meltzer. (Proceedings) 1916, **8**, 133.
- Gaseous metabolism in man, Effect of alcohol on the respiration and. Higgins. 1917, **9**, 441.
- metabolism, The effect of certain drugs on the respiration and, in normal human subjects. Higgins and Means. 1915, **7**, 1.
- Gases and vapors, An apparatus for the administration of, to animals. Marshall and Kolls. 1919, **12**, 385.
- Gasoline vapor, The anesthetic and convulsant effects of. Haggard. 1921, **16**, 401.
- Gasser, H. S., and Loevenhart, A. S. The mechanism of stimulation of the medullary centers by decreased oxidation. 1913-14, **5**, 239.
- Gastric juice, Further studies on the action of bitter tonics on the secretion of. Contributions to the physiology of the stomach. XXVIII. Moorhead. 1915, **7**, 577.
- juice, The solubility of lead sulphide ores and of lead sulphide in human. Woelfel and Carlson. 1913-14, **5**, 549.
- mucous membrane, Studies in the absorption of drugs from the. I. Strychnine nitrate. Ryan. 1912-13, **4**, 43.

- Gastro-intestinal absorption of drugs, Quantitative studies on. I. The inhibitory action of phenol on absorption. Sollmann, Hanzlik and Pilcher. 1910, **1**, 409.
- absorption of drugs, Quantitative studies on the. II. The absorption of sodium iodide. Hanzlik. 1911-12, **3**, 387.
- absorption of drugs, Quantitative studies on the. III. The absorption of alcohol. Hanzlik and Collins. 1913-14, **5**, 185.
- tract, Strophanthine absorption from the. Hatcher. (Proceedings) 1910, **1**, 575.
- Gates, F. L. A portable respiration machine furnishing continuous remittent and intermittent streams of air. (Proceedings) 1914-15, **6**, 611.
- The appearance of hyalin casts in the urine of dogs following the intra-intestinal injection of magnesium sulphate. (Proceedings) 1914-15, **6**, 610.
- , and Auer, J. A respiratory factor in the production of adrenin pulmonary edema in the rabbit. (Proceedings) 1917, **9**, 361.
- , and Auer, J. Some effects of adrenaline when injected into the respiratory tract of rabbits. (Proceedings) 1914-15, **6**, 608.
- , and Meltzer, S. J. The favorable antagonistic effect of magnesium sulphate against surely fatal doses of sodium oxalate. (Proceedings) 1917, **9**, 353.
- Gauss, Harry. The effect of morphine upon the alkali reserve of the blood of man and certain animals. 1921, **16**, 475.
- , and Corper, H. J. A preliminary note on the colorimetric estimation of morphine. (Proceedings) 1921, **17**, 343.
- Gavron, J. L., and Raiziss, G. W. A study of the colloidal properties of arsphenamine and allied products. 1923, **20**, 163.
- Genito-urinary organs, On the absorption of local anesthetics through the. Macht. 1921, **16**, 435.
- Geraghty, J. T., and Rowntree, L. G. An experimental and clinical study of the functional activity of the kidneys by means of phenolsulphonephthalein. 1910, **1**, 579.
- , and Rowntree, L. G. Further data relating to the value of phenolsulphonephthalein in estimating the functional capacity of the kidney. (Proceedings) 1910-11, **2**, 393.
- , and Rowntree, L. G. Intramuscular versus subcutaneous absorption. (Proceedings) 1911-12, **3**, 460.
- , and Rowntree, L. G. On the use of phenolsulphonephthalein in estimating the function of the kidneys. (Proceedings) 1910, **1**, 576.
- Gerald, H. F., and Muirhead, A. L. The action of certain volatile oils on isolated intestinal segments. 1916, **8**, 253.
- Germanium, The relative toxicity of, and arsenic for the albino rat. Hammett, Muller and Nowrey. 1922, **19**, 337.
- Gibbs, O. S. The edema of para-phenylenediamine. 1923, **20**, 221.
- Gibson, F. S., Stewart, G. N., and Rogoff, J. M. Liberation of epinephrine from the adrenal glands by stimulation of the splanchnic nerves and by massage. 1916, **8**, 205.
- Gibson, R. B., and Schultz, W. H. The pharmacologic action of certain protein cleavage products upon the heart. 1910, **1**, 469.
- Gies, W. J. Experiments with salts of aluminium and beryllium. (Proceedings) 1910-11, **2**, 403.

- Githens, T. S. The effect of ergotoxin on the temperature of rabbits. (Proceedings) 1917, **9**, 360.
- . The influence of decerebration upon morphine tetanus in frogs. (Proceedings) 1913, **4**, 356.
- . The influence of ergotoxin on body temperature. 1917-18, **10**, 327.
- . The pharmaceutic chemistry of digitalis. (Proceedings) 1920, **15**, 245.
- , and Meltzer, S. J. Differences in the toxic effects of ether and chloroform, as observed under intratracheal insufflation. (Proceedings) 1912-13, **4**, 355.
- , and Meltzer, S. J. Distribution of solutions in cardiectomized frogs with destroyed or inactive lymph hearts. (Proceedings) 1914-15, **6**, 607.
- , and Meltzer, S. J. Is the dilatation of the pupil following gangliectomy due to vaso-dilatation? (Proceedings) 1916, **8**, 133.
- , and Meltzer, S. J. On the duration of irritability of the motor nerves of the frog after death and the effect of strychnine upon it. (Proceedings) 1911-12, **3**, 463.
- , and Meltzer, S. J. The control of strychnine poisoning by means of intratracheal insufflation and ether. 1910-11, **2**, 357.
- , and Meltzer, S. J. The control of strychnine poisoning by means of insufflation and ether. (Proceedings) 1910-11, **2**, 404.
- , and Meltzer, S. J. The influence of pituitrin and of adrenaline on the pupil of normal and ganglionectomized rabbits. (Proceedings) 1917, **9**, 360.
- , and Meltzer, S. J. The irritability of motor nerves in chloroform anesthesia. (Proceedings) 1913-14, **5**, 523.
- , and Meltzer, S. J. The nature of the cessation of respiration in deep ether anesthesia. (Proceedings) 1913-14, **5**, 523.
- Glandular extracts, The action of, upon the amount of epinephrine in the blood. Ott and Scott. 1911-12, **3**, 625.
- Glucosides of the digitalis series, Factors determining tolerance of. Clark. 1912-13, **4**, 399.
- Glycogenic function, The influence of atropine and pilocarpine on the. McGuigan. 1916, **8**, 407.
- Glycogenolysis, The action of quinine on sugar mobilization with its bearing on the question of. Tatum and Cutting. 1923, **20** 393.
- Glycosuria, Further observations on caffeine. Salant and Kahn. (Proceedings) 1913-14, **5**, 512.
- , Production of, by zinc. Salant and Kahn. (Proceedings) 1913-14, **5**, 512.
- , Uranium. Wallace and Myers. (Proceedings) 1913-14, **5**, 511.
- Goiter, exophthalmic, and other conditions involving the thyroid, Attempt to detect thyroid secretion in blood obtained from the glands of individuals with. Rogoff and Goldblatt. 1921, **17**, 473.
- Gold, Distribution of, in animal tissues. Studies on the biochemistry and chemotherapy of tuberculosis. XVII. DeWitt, Cadwell and Leavell. 1918, **11**, 357.
- Goldberg, Morris, and Gunn, J. W. C. The action of salicylates on the uterus. 1922, **19**, 207.
- Goldblatt, H., and Rogoff, J. M. Attempt to detect thyroid secretion in blood obtained from the glands of individuals with exophthalmic goiter and other conditions involving the thyroid. 1921, **17**, 473.

- Golla, F. L., and Symes, W. L. The reversible action of adrenaline and some kindred drugs on the bronchioles. 1913-14, **5**, 87.
- Gonococcus, A comparison of the antiseptic action of various aromatic ethoxy and hydroxy compounds upon the pneumococcus and. Hirschfelder and Pankow. (Proceedings) 1922, **19**, 248.
- Gossypol, Pharmacological action of. Alsberg and Schwartz. (Proceedings) 1919, **13**, 504.
- , The relation of cottonseed poisoning to. Alsberg and Schwartz. (Proceedings) 1921, **17**, 344.
- Gout, The influence of some drugs used in the treatment of arthritis and, on the elimination of uric acid and other waste products from the blood. Denis. 1915, **7**, 601.
- Grabfield, G. P. The hemolytic properties of arsphenamine and fifteen allied compounds. 1922, **19**, 343.
- , and Hale, Worth. The effect of certain drugs upon faradic sensibility. (Proceedings) 1922, **19**, 262.
- , and Means, J. H. The effect of caffeine on the reaction to carbon dioxide of the normal human respiratory mechanism. 1917-18, **10**, 159.
- , and Pratt, J. H. Observations on the action of cinchophen in human subjects with normal nucleic acid metabolism. (Proceedings) 1922, **19**, 259.
- Grace, C. M., McGuire, J. H., and Martin, E. G. The influence of drugs on the human sensory threshold. 1914-15, **6**, 527.
- Gray, W. H., and Fargher, R. G. The chemotherapy of antimony. Comparison of the antimonyl tartrates with the organic compounds of antimony. 1922, **18**, 341.
- Graybill, H. W. Ipecac in the treatment of blackhead in turkeys. 1923, **20**, 115.
- Greenberg, J., Macht, D. I., and Isaacs, S. The effect of some antipyretics on the acuity of hearing. 1920, **15**, 149.
- Greene, C. W. The action of g-strophanthine on the isolated mammalian heart. (Proceedings) 1910-11, **2**, 398.
- , Boutwell, L. R., and Peeler, J. O. An analysis of the action of digitalis on the cardiac inhibitory center and on the cardiac muscles. (Proceedings) 1914-15, **6**, 598.
- , and Peeler, J. O. The central action of digitalis as tested by the cardio-inhibitory center. 1915, **7**, 591.
- Greenlees, J. R. C. The action of hydroxycodine. 1912-13, **4**, 109.
- Greenwald, Isidor. A study of the antiseptic and pharmacologic properties of meta-cresol acetate. 1910-11, **2**, 513.
- , Observations on the effect of intravenous injections of sodium phosphate. 1915, **7**, 57.
- , Observations on the effect of intravenous injections of some sodium salts with special reference to the supposed toxicity of sodium phosphate. 1918, **11**, 281.
- Grove, W. E. On the toxicity of dextro-, laevo- and inactive camphor. 1910, **1**, 445.
- , and Lœvenhart, A. S. On the pharmacological action of iod-, iodoso- and oxyiodosobenzoic acids. A preliminary note. 1910, **1**, 289.

- Grove, W. E. and Loevenhart, A. S. Studies on the pharmacological action of oxidizing substances. 1911-12, **3**, 101.
- , and Loevenhart, A. S. The action of hydrocyanic acid on the respiration and the antagonistic action of sodium iodosobenzoate. 1911-12, **3**, 131.
- Growth of chickens under laboratory conditions. Mendel and Osborne. (Proceedings) 1918, **11**, 170.
- promoting substance in butter fat, The stability of the. Mendel and Osborne. (Proceedings) 1916, **8**, 109.
- Gruber, C. M. A note on the action of pilocarpine, atropine, and adrenaline upon the tonus waves in the terrapin heart. III. 1920, **15**, 23.
- IV. The antagonistic actions of epinephrine and potassium chloride on the tonus and tonus waves in the excised terrapin auricles. 1920, **15**, 271.
- V. Further studies on the antagonistic action of epinephrine to certain drugs upon the tonus and tonus waves in the terrapin auricles. 1921, **16**, 405.
- The effect of epinephrine on excised strips of frogs' digestive tracts. 1923, **20**, 321.
- , and Markel, Casper. I. Tonus waves from the sino-auricular muscle preparation of the terrapin as affected by adrenaline. 1919, **12**, 43.
- , and Markel, Casper. II. Tonus waves in the terrapin auricles as affected by pilocarpine, atropine and adrenaline. 1919, **12**, 53.
- Gum acacia, The action of, on the circulation. Bayliss. 1920, **15**, 29.
- Gunn, J. A. The congenital tolerance of the rat to strophanthus. 1912-13, **4**, 225.
- , and Cushny, A. R. The action of serum on the perfused heart of the rabbit. 1913-14, **5**, 1.
- , and Gunn, J. W. C. The action of certain drugs on the uterus of the guinea-pig and of the rat. 1913-14, **5**, 527.
- , and Martin, P. A. Intrapericardial medication and massage in the treatment of arrest of the heart. 1915, **7**, 31.
- Gunn, J. W. C. The action of borax on the uterus. 1921, **16**, 135.
- The action of the "emmenagogue oils" on the human uterus. 1921, **16**, 485.
- The carminative action of volatile oils. 1921, **16**, 39.
- The influence of temperature on the action of strophanthine on the mammalian heart. 1914-15, **6**, 39.
- , and Goldberg, Morris. The action of salicylates on the uterus. 1922, **19**, 207.
- , and Gunn, J. A. The action of certain drugs on the uterus of the guinea-pig and of the rat. 1913-14, **5**, 527.
- Guthrie, C. C. Digitalis on cardiac irritability. (Proceedings) 1917, **9**, 342.
- On insufflation of the lungs with hydrogen, carbon dioxide and air. (Proceedings) 1910, **1**, 576.
- , Guthrie, F. V., and Ryan, A. H. On insufflation of the lungs with hydrogen; with carbon dioxide; and with air. 1910-11, **2**, 49.
- Guthrie, F. V., Ryan, A. H., and Guthrie, C. C. On insufflation of the lungs with hydrogen; with carbon dioxide; and with air. 1910-11, **2**, 49.

- Habit. Studies on the convulsive reflex produced by strychnine. I. Mostrom and McGuigan. 1911-12, **3**, 515.
- Haemolysins in fungi, The distribution of agglutinins, poisons and, especially in the amanitas, the entolomas, the lactarius and the inocybes. Ford. 1910-11, **2**, 285.
- Haemolysis, The mechanism of, with special reference to the relations of electrolytes to cells. Stewart. 1910, **1**, 49.
- Hager, B. H., and Becht, F. C. The action of viburnum prunifolium. 1919, **13**, 61.
- Haggard, H. W. The anesthetic and convulsant effects of gasoline vapor. 1921, **16**, 401.
- . The toxicology of hydrogen sulphide. (Proceedings) 1922, **19**, 262.
- , and Henderson, Yandell. The circulation in man in the head-down position, and a method for measuring the venous return to the heart. 1918, **11**, 189.
- , and Henderson, Yandell. The elimination of carbon monoxide from the blood after a dangerous degree of asphyxiation and a therapy for accelerating the elimination. 1921, **16**, 11.
- , Henderson, Yandell, and Prince, A. L. The influence of forced breathing on the circulation. 1918, **11**, 203.
- Hale, Worth. A signal magnet which writes either upwards or downwards. (Proceedings) 1917, **9**, 362.
- . Comparative action of the chief alkaloids of cinchona. (Proceedings) 1916, **8**, 122.
- . Some new time recording apparatus. 1916, **8**, 445.
- . Studies in tolerance: II. Strychnine. 1910, **1**, 39.
- . The action of cinchonine, cinchonidine and quinine on the isolated uterus. (Proceedings) 1914-15, **6**, 602.
- . The action of cinchonidine on the isolated uterus. (Proceedings) 1914-15, **6**, 602.
- . The effect of certain drugs upon the toxicity of acetphenetidine and para-amidophenol. (Proceedings) 1910, **1**, 575.
- . The effects of caffeine and sodium bicarbonate upon the toxicity of acetanilide. 1910, **1**, 185.
- . The seasonal and sex variations of *Rana pipiens* to digitalis. (Proceedings) 1911-12, **3**, 458.
- , and Edmunds, C. W. Physiological assay of ergot. (Proceedings) 1910-11, **2**, 393.
- , and Grabfield, G. P. The effect of certain drugs upon faradic sensibility. (Proceedings) 1922, **19**, 262.
- Hall, M. C., and Hamilton, H. C. Investigations on the composition of oil of chenopodium and the anthelmintic value of some of its components. 1918, **11**, 231.
- Hamill, P., and Clark, A. J. Observations on the changes in the circulatory system in periodic respiration. 1913-14, **5**, 357.
- Hamilton, H. C., and Hall, M. C. Investigations on the composition of oil of chenopodium and the anthelmintic value of some of its components. 1918, **11**, 231.
- Hammett, F. S. The peripheral point of attack of strychnine. 1916, **8**, 175.

- Hammett, F. S., Muller, J. H., and Nowrey, J. E., Jr. The relative toxicity of germanium and arsenic for the albino rat. 1922, **19**, 337.
- , and Nowrey, J. E., Jr. Changes with advancing age in the resistance of the albino rat to arsenic. 1922, **19**, 331.
- Hansen, O. S. Magnesium sulphate in arsenic poisoning. 1921, **17**, 105.
- Hanson, S., and McQuarrie, I. The non-dependence of the protein quotient in the blood serum upon the rapidity of metabolism, with especial reference to the non-effect of antipyretics, sodium cacodylate and thyroid extract. 1917-18, **10**, 261.
- Hanson, W., Hirschfelder, A. D., Bicek, J., and Kucera, F. J. The effect of high temperature upon the action and toxicity of digitalis. 1920, **15**, 427.
- Hanzlik, P. J. Comparative effects of morphine and alkaloids of the benzyloquinoline group on cardiac muscle. 1921, **17**, 445.
- , Effects of various colloids and other agents which produce anaphylactoid phenomena on surviving intestine and uterus. 1920, **14**, 463.
- , Further observations on the pharmacology of chelidonine. (Proceedings) 1920, **15**, 236.
- , Liberation of free salicylic acid from salicylate in the circulation. (Proceedings) 1921, **17**, 329.
- , Local hemostatic properties of cotarnine and some other agents. 1917-18, **10**, 523.
- , Quantitative studies on the gastro-intestinal absorption of drugs. II. The absorption of sodium iodide. 1912, **3**, 387.
- , Salicyluric acid. (Proceedings) 1916, **8**, 130.
- , The clotting efficiency of thromboplastic agents: A reply. 1921, **16**, 35.
- , The comparative stimulant efficiency of some local and systemic agents on normal and depressed respiration, and irritant efficiency of some agents. 1923, **20**, 463.
- , The effects of chelidonine on smooth muscle. 1915, **7**, 99.
- , The effects of chelidonine on surviving organs. (Proceedings) 1914-15, **6**, 596.
- , The effects of various agents on superficial hemorrhage and the efficiency of local hemostatics. 1919, **12**, 71.
- , The effects of various systemic agents on superficial hemorrhage. 1919, **12**, 119.
- , The intestinal absorption of alcohol. (Proceedings) 1912-13, **4**, 344.
- , The liberation of formaldehyde from hexamethylenamine in pathological fluids. (Proceedings) 1913-14, **5**, 518.
- , The pharmacology of chelidonine, the benzyloquinoline alkaloid of chelidonium (celandine or tettenwort) and stylophorum. 1921, **18**, 63.
- , The pharmacology of some amines. (Proceedings) 1921, **17**, 327.
- , The salicylates. IX. The question of salicyluric acid in salicyl urines. 1917-18, **10**, 461.
- , The salicylates. XIII. The liberation of free salicylic acid from salicylate in the circulation. 1921, **17**, 385.
- , The "toxic dose" of the salicylates according to clinical statistics. (Proceedings) 1912-13, **4**, 346.
- , Toxicity and actions of the normal butylaminins. 1923, **20**, 435.

- Hanzlik, P. J., and Collins, R. J. Colorimetric method for the estimation of free formaldehyde. (Proceedings) 1916, **8**, 130.
- , and Collins, R. J. Further observations on the clinical actions of veratrum. 1918, **11**, 89.
- , and Collins, R. J. Quantitative studies on the gastro-intestinal absorption of drugs. III. The absorption of alcohol. 1914, **5**, 185.
- , and De Eds, Floyd. Influence of various factors on the excretion and decomposition of hexamethylenamine. (Proceedings) 1922, **19**, 247.
- , De Eds, Floyd and Prescho, E. Urinary excretion of salicyl after the administration of salicylates and salicyl esters. (Proceedings) 1922, **19**, 248.
- , and Irvine, A. The toxicity of some thioureas and thiuramdisulphides. 1921, **17**, 349.
- , and Karsner, H. T. A comparison of the prophylactic effects of atropine and epinephrine in anaphylactic shock and anaphylactoid phenomena from various colloids and arsphenamine. 1920, **14**, 425.
- , and Karsner, H. T. Anaphylactoid phenomena. (Proceedings) 1920, **15**, 246.
- , and Karsner, H. T. Anaphylactoid phenomena from the intravenous administration of various colloids, arsenicals and other agents. 1920, **14**, 379.
- , and Karsner, H. T. Effects of various colloids and other agents which produce anaphylactoid phenomena on bronchi of perfused lungs. 1920, **14**, 449.
- , and Karsner, H. T. Hemagglutination in vitro by agents which produce anaphylactoid symptoms. (Proceedings) 1920, **15**, 247.
- , and Karsner, H. T. Hemagglutination in vitro by agents which produce anaphylactoid symptoms. 1920, **14**, 479.
- , Karsner, H. T., and Fetterman, Joseph. Anaphylactoid phenomena from thromboplastic agents. 1920, **14**, 229.
- , McIntyre, M., and Prescho, E. Experimental plumbism: therapeutic efficiency of some agents, and comparative toxicity of certain metals. (Proceedings) 1922, **19**, 248.
- , Pilcher, J. D., and Sollmann, Torald. Quantitative studies on the gastro-intestinal absorption of drugs: I. The inhibitory action of phenol on absorption. 1910, **1**, 409.
- , Scott, R. W., and Reycraft, J. L. Salicylate edema. (Proceedings) 1917, **9**, 348.
- , Scott, R. W., and Thoburn, T. W. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. (Proceedings) 1916, **8**, 129.
- , Scott, R. W., and Thoburn, T. W. Excretion of salicylate in various clinical conditions. (Proceedings) 1917, **9**, 347.
- , Scott, R. W., and Thoburn, T. W. Further observations on albuminuria and renal function following the administration of full therapeutic doses of salicylate. (Proceedings) 1917, **9**, 349.
- , Scott, R. W., and Thoburn, T. W. Salicyl in blood and joint fluid of individuals receiving full therapeutic doses of salicylate. (Proceedings) 1916, **8**, 130.

- Hanzlik, P. J., Scott, R. W., and Thoburn, T. W. The salicylates. IV. Salicylate in the blood and joint fluid of individuals receiving full therapeutic doses of the drug. 1917, **9**, 217.
- , Scott, R. W., and Thoburn, T. W. The salicylates. V. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. 1917, **9**, 247.
- , and Sollmann, Torald. Inhibition of iodide absorption by chloride. (Proceedings) 1911-12, **3**, 473.
- , and Tarr, Jesse. The comparative skin irritant properties of dichloroethylsulphide ("mustard gas") and other agents. 1920, **14**, 221.
- , and Weidenthal, C. M. The hemostatic properties of thromboplastic agents under different conditions. 1920, **14**, 189.
- , and Weidenthal, C. M. The plasma and blood clotting efficiency of thromboplastic agents in vitro and their stability. 1920, **14**, 157.
- , and Wetzel, N. C. The salicylates. XI. The stability and destruction of the salicyl group under biological conditions. 1920, **14**, 25.
- , and Wetzel, N. C. The salicylates. XII. The excretion of salicyl after the administration of methyl salicylate to animals. 1920, **14**, 43.
- Hardikar, S. W. On rhododendron poisoning. 1923, **20**, 17.
- Harer, W. B., and Schmidt, C. F. The action of certain drugs on respiration. (Proceedings) 1922, **19**, 269.
- Harington, C. R., and Meakins, Jonathan. The relation of histamine to intestinal intoxication. I. The presence of histamine in the human intestine. 1921, **18**, 455.
- , and Meakins, Jonathan. The relation of histamine to intestinal intoxication. II. The absorption of histamine from the intestine. 1923, **20**, 45.
- Hart, M. C., Hirschfelder, A. D., and Kucera, F. J. Further studies on saligenin: its mercury derivatives and allied compounds. (Proceedings) 1921, **17**, 325.
- , and Sollmann, T. Inhibition of iodide absorption by chloride. (Proceedings) 1911-12, **3**, 473.
- Hartman, F. A. Location of adrenaline vasodilator mechanisms. (Proceedings) 1918, **11**, 185.
- , and Lang, R. S. Action of adrenaline on the spleen. 1919, **13**, 417.
- Haskins, H. D. The effect of atophan and novatophan on the endogenous uric acid excretion of normal men. 1913-14, **5**, 63.
- Hatcher, R. A. Strophanthine absorption from the gastro-intestinal tract. (Proceedings) 1910, **1**, 575.
- , and Eggleston, Cary. A contribution to the pharmacology of novocaine. 1916, **8**, 385.
- , and Eggleston, Cary. A further contribution to the pharmacology of the local anesthetics. 1919, **13**, 433.
- , and Eggleston, Cary. Behavior of strychnine in the animal body. (Proceedings) 1917, **9**, 359.
- , and Eggleston, Cary. Studies in the absorption of drugs. (Proceedings) 1913-14, **5**, 516.
- , and Eggleston, Cary. Studies in the elimination of certain of the digitalis bodies from the animal organism. 1919, **12**, 405.
- , and Eggleston, Cary. The emetic action of the digitalis bodies. 1912-13, **4**, 113.

- Hatcher, R. A., and Eggleston, Cary. The fate of strychnine in the body. 1917-18, **10**, 281.
- , and Eggleston, Cary. The seat of the emetic action of apomorphine. 1911-12, **3**, 551.
- , and Eggleston, Cary. The seat of the emetic action of various drugs. 1915, **7**, 225.
- , and Smith, M. I. A contribution to the pharmacology of stovaine. 1917, **9**, 231.
- , and Smith, M. I. The elimination of strychnine by the kidneys. 1917, **9**, 27.
- , and Weiss, Soma. Observations on the physiology of vomiting. (Proceedings) 1922, **19**, 247.
- , and Weiss, Soma. Studies on strychnine. 1922, **19**, 419.
- Heard, J. D., and Brooks, Clyde. The action of camphor on the circulation. (Proceedings) 1914-15, **6**, 605.
- Hearing, The effect of some antipyretics on the acuity of. Macht, Greenberg and Isaacs. 1920, **15**, 149.
- Heart, A note on the action of pilocarpine, atropine and adrenaline upon the tonus waves in the terrapin. III. Gruber. 1920, **15**, 23.
- , A note on the combined action of camphor and lack of oxygen upon the isolated mammalian, with an observation upon the direct action of lack of oxygen upon blood vessels. Richards. 1914-15, **6**, 73.
- , A study of the action of the, in anaphylactic shock in the dog. Eisenbrey and Pearce. 1912-13, **4**, 21.
- , Action of iodides on the blood-vessels and. Macht. (Proceedings) 1913-14, **5**, 514.
- , Action of phenylethylamine on the. Barbour and Frankel. 1915, **7**, 511.
- , An analysis of the action of digitalis on the cardiac inhibitory center and on the cardiac muscles. Greene, Boutwell and Peeler. 1914-15, **6**, 598.
- , An apparatus for the perfusion of isolated organs especially the isolated mammalian. Eyster and Loevenhart. 1913-14, **5**, 57.
- and circulation, The action of urea and of hypertonic solutions on the. Eyster and Wilde. 1910, **1**, 391.
- and muscle strips, An improved lever for frog's. Ryan. (Proceedings) 1917, **9**, 362.
- beats, The action of epinephrine on vasomotors and, studied separately by the artificial control of blood pressure by means of the compensator. Brooks, McPeck and Seymour. (Proceedings) 1918, **11**, 168.
- , Certain effects of digitalis on the. Cohn and Fraser. (Proceedings) 1913-14, **5**, 512.
- , Demonstration that the spontaneously liberated epinephrine can exert an action upon the. Stewart and Rogoff. 1919, **13**, 397.
- , Experiments dealing with certain effects of quinidine sulphate on the dog's. Cohn and Levy. (Proceedings) 1922, **19**, 259.
- , Experiments on the cardiac action of camphor. Plant. 1913-14, **5**, 571.
- , Experiments with aconitine and barium on the isolated. Salant and Kleitman. (Proceedings) 1922, **19**, 257.
- , Experiments with succinate and its hydroxy derivatives on the isolated. Connet, Salant and Livingston. 1917-18, **10**, 129.

- Heart, Further studies on the antagonistic action of epinephrine to certain drugs upon the tonus and tonus waves in the terrapin auricles. V. Gruber. 1921, **16**, 405.
- , Increase of "tone" associated with the action of strophanthus on the. Tait and Pringle. 1916, **8**, 339.
- , Influence of temperature and concentration on the quantitative reaction of the. Gunn. 1914-15, **6**, 39.
- , Intrapericardial medication and massage in the treatment of arrest of the. Gunn and Martin. 1915, **7**, 31.
- lung preparation for testing the cardiac action of drugs, A note on the efficiency of the Knowlton-Starling isolated. Plant. 1913-14, **5**, 603.
- muscle, Does atropine alter the effects of digitalis upon the tonus of. Hirschfelder. (Proceedings) 1918, **11**, 177.
- of the cat, A quantitative study of the effect of digitalis on the. Robinson and Wilson. 1917-18, **10**, 491.
- of the dog, The influence of intravenous injections of sparteine and adrena-line on the. Strickler and Fleisher. 1910-11, **2**, 55.
- of the rabbit, The action of serum on the perfused. Cushny and Gunn. 1913-14, **5**, 1.
- , On the action of muscarine on the electrical response of the. Mines. 1913-14, **5**, 425.
- , On the relation between tonus and smooth muscle in the terrapin. Snyder and Andrus. 1920, **14**, 1.
- , On the vaso-constrictive action of serum on the coronary vessels of the mammalian. Yanagawa. 1916, **8**, 89.
- , Reaction of, toward chlorine. Schultz. (Proceedings) 1918, **11**, 179.
- , The action of acetanilide on isolated cardiac muscle. Carr. (Proceedings) 1910-11, **2**, 399.
- , The action of adrenaline on the. I. Action on the turtle heart. Heinekamp. 1920, **14**, 17.
- , The action of adrenaline on the. II. The modification of the action of adrenaline by morphine. Heinekamp. 1920, **14**, 327.
- , The action of adrenaline on the. III. The modification of the action of adrenaline by chloroform. Heinekamp. 1921, **16**, 247.
- , The action of amanita phalloides and other amanitas upon the frog's. Ford and Brush. 1914-15, **6**, 195.
- , The action of caffeine on the mammalian. Pilcher. 1911-12, **3**, 609.
- , The action of caffeine, theobromine and theophylline on the mammalian and batrachian. Heathcote. 1921, **16**, 327.
- , The action of magnesium salts upon the mammalian. Matthews. (Proceedings) 1921, **17**, 339.
- , The action of g-strophanthine on the isolated mammalian. Greene. (Proceedings) 1910-11, **2**, 398.
- , The action of phenylethylamine on the. Frankel and Barbour. 1915, **7**, 511.
- , The action of the bromides on the isolated mammalian. The rôle of the bromide salts on rhythmically contracting organs. Kruse. 1920, **14**, 137.
- , The action of urea and of hypertonic solutions on the circulation and. Eyster and Wilde. 1910, **1**, 391.

- Heart, The antagonistic actions of epinephrine and potassium chloride on the tonus and tonus waves in the excised terrapin auricles. IV. Gruber. 1920, **15**, 271.
- , The blood flow in a patient with double aortic and double mitral disease. Newburgh and Means. 1915, **7**, 441.
- , The circulation in man in the head-down position, and a method for measuring the venous return to the. Henderson and Haggard. 1918, **11**, 189.
- , The effect of certain oxidizing substances and of acids and alkalies on the isolated mammalian. Loevenhart and Eyster. 1913-14, **5**, 21.
- , The influence of heavy metals on the isolated. Salant and Connet. (Proceedings) 1920, **15**, 245.
- , The influence of heavy metals on the isolated frog. Salant and Connet. 1920, **15**, 217.
- , The influence of iodine on the. Salant and Livingston. (Proceedings) 1916, **8**, 119.
- , The influence of the oil of chenopodium on the, of the turtle. Salant and Battle. (Proceedings) 1921, **17**, 331.
- , The influence of temperature and concentration on the quantitative reaction of the, to ouabain. Sollmann, Mendenhall and Stingel. 1914-15, **6**, 533.
- , The influence of temperature on the action of strophanthine on the mammalian. Gunn. 1914-15, **6**, 39.
- , The mechanism of the toxic action of the heavy metals on the isolated. Voegtlin. (Proceedings) 1914-15, **6**, 602.
- , The pharmacologic action of certain protein cleavage products upon the. Gibson and Schultz. 1910, **1**, 469.
- , The pharmacology of the snake's. Clark. 1912-13, **4**, 425.
- , The restoration of the frog's, in chloroform poisoning. Ransom. 1920, **14**, 367.
- Heat production in the dog, The influence of morphine upon. Animal calorimetry. Chanutin and Lusk. 1922, **19**, 359.
- Heathcote, R. St. A. The action of caffeine, theobromine and theophylline on the mammalian and batrachian heart. 1921, **16**, 327.
- Heavy metals, Further observations on the action of. Salant and Kleitman. (Proceedings) 1921, **17**, 332.
- , The influence of, on the isolated frog heart. Salant and Connet. 1920, **15**, 217.
- , The influence of, on the isolated heart. Salant and Connet. (Proceedings) 1920, **15**, 245.
- , The mechanism of the toxic action of, on the isolated heart. Voegtlin. (Proceedings) 1914-15, **6**, 602.
- Hecht, Selig, and Salant, William. Further observations on the action of ergot. (Proceedings) 1913-14, **5**, 517.
- Hederin, The chemical and pharmacological properties of, a sapo-glucoside contained in the leaves of common ivy (*hedera helix*). Moore. 1912-13, **4**, 263.
- Heinekamp, W. J. R. Perfusion of the medulla of the terrapin (*Pseudomys troostii*) with adrenaline. 1922, **19**, 131.
- , The action of adrenaline on the heart. I. Action on the turtle heart. 1920, **14**, 17.

- Heinekamp, W. J. B. The action of adrenaline on the heart. II. The modification of the action of adrenaline by morphine. 1920, **14**, 327.
- . The action of adrenaline on the heart. III. The modification of the action of adrenaline by chloroform. 1921, **16**, 247.
- . The action of potassium salts on the medulla as shown by perfusion of the medulla of the terrapin (*Pseudomys troosti*) with potassium salts. 1922, **19**, 239.
- . The mechanism of the Straub biologic test for morphine. 1923, **20**, 107.
- Helenin, Note concerning. Lamson. 1913-15, **6**, 413.
- , On the pharmacological action of, the active principle of helenium autumnale. Lamson. 1912-13, **4**, 471.
- Helenium autumnale, On the pharmacological action of helenin, the active principle of. Lamson. 1912-13, **4**, 471.
- Helmholz, H. F., and Amberg, Samuel. Detoxifying action of sodium salts upon potassium salts on intravenous injection. (Proceedings) 1916, **8**, 120.
- , and Amberg, Samuel. The detoxifying action of sodium salt on potassium salt in the guinea pig. 1919, **12**, 19.
- , and Amberg, Samuel. The fatal dose of various substances on intravenous injection in the guinea pig. (Proceedings) 1914-15, **6**, 595.
- Hemagglutination in vitro by agents which produced anaphylactoid symptoms. Karsner and Hanzlik. (Proceedings) 1920, **15**, 247.
- in vitro by agents which produce anaphylactoid symptoms. Hanzlik and Karsner. 1920, **14**, 479.
- Hematin, The effect of, on the circulation and respiration. Brown and Loevenhart. (Proceedings) 1912-13, **4**, 347.
- Hemolytic activity, The relation of the surface tension of saponin solutions to their. Woodward and Alsberg. (Proceedings) 1916, **8**, 109.
- agents, The action of bland oils on certain. Pilcher. (Proceedings) 1912-13, **4**, 350.
- power, A comparison of the effect of certain saponins on the surface tension of water with their. Woodward and Alsberg. 1921, **16**, 237.
- power of various plants. Alsberg. (Proceedings) 1912-13, **4**, 353.
- properties of arsphenamine and fifteen allied compounds. Grabfield. 1922, **19**, 343.
- Hemorrhage, The effect of, on the sympathetics. McGuigan. (Proceedings) 1921, **17**, 328.
- , The effects of various agents on superficial, and the efficiency of local hemostatics. Hanzlik. 1919, **12**, 71.
- , The effects of various systemic agents on superficial. Hanzlik. 1919, **12**, 119.
- Hemorrhages, On the causation of experimental anaphylactic, in the stomach. Auer. (Proceedings) 1922, **19**, 255.
- Hemostatic properties, local, of cotarnine and some other agents. Hanzlik. 1917-18, **10**, 523.
- properties of thromboplastic agents under different conditions. Hanzlik and Weidenthal. 1920, **14**, 189.
- Hemostatics, The effects of various agents on superficial hemorrhage and the efficiency of local. Hanzlik. 1919, **12**, 71.

- Henderson, L. J., Palmer, W. W., and Newburgh, L. H. The swelling of colloids and hydrogen ion concentration. 1913-14, **5**, 449.
- Henderson, V. E. Anesthesia by the intracerebral injection of magnesium chloride. 1910, **1**, 199.
- , Notes on the action of atropine. (Proceedings) 1922, **19**, 271.
- , The action of drugs on the salivary secretion. 1910-11, **2**, 1.
- , and Cronyn, W. H. Ergot. 1910, **1**, 203.
- , and Taylor, A. H. Expectorants. 1910-11, **2**, 153.
- Henderson, Y. Demonstration of a carbonator for quantitative carbon-dioxide therapy. (Proceedings) 1912-13, **4**, 353.
- , and Haggard, H. W. The circulation in man in the head down position, and a method for measuring the venous return to the heart. 1918, **11**, 189.
- , and Haggard, H. W. The elimination of carbon monoxide from the blood after a dangerous degree of asphyxiation, and a therapy for accelerating the elimination. 1921, **16**, 11.
- , Prince, A. L., and Haggard, H. W. The influence of forced breathing on the circulation. 1918, **11**, 203.
- Hepatic cirrhosis of cattle (Pictou, Molteno, or Winton disease), On the action of senecio alkaloids and the causation of the. Cushny. 1910-11, **2**, 531.
- Herman, N. B., Levy, C. S., and Macht, D. I. A quantitative study of the analgesia produced by opium alkaloids, individually and in combination with each other, in normal man. 1916, **8**, 1.
- Heroine, Altered susceptibility to codeine, cannabis-indica, chloral-hydrate and, in dogs having an acquired tolerance for morphine. Cross tolerance. Myers. 1916, **8**, 417.
- , On the effect of sodium bicarbonate and sodium chloride upon the convulsions produced by strychnine and. Kleiner. (Proceedings) 1912-13, **4**, 357.
- Herrmann, J. B., and Barbour, H. G. The relation of the dextrose and water content of the blood to antipyretic drug action. 1921, **18**, 165.
- Herter, Christian Archibald. In memoriam. 1910-11, **2**, 165.
- Hess, C. L. von, and McGuigan, Hugh. Isocalycanthine and its quaternary base. 1911-12, **3**, 441.
- , and McGuigan, Hugh. The condition of the sugar in the blood. 1914-15, **6**, 45.
- Hexamethylenamine in pathological fluids, The liberation of formaldehyde from. Hanzlik. (Proceedings) 1913-14, **5**, 518.
- , Influence of various factors on the excretion and decomposition of. Hanzlik and De Eds. (Proceedings) 1922, **19**, 247.
- Hexamethylenetramine (urotropin) as an index of renal function, The elimination of. Falk and Sugiura. 1917, **9**, 241.
- (urotropin) Elimination of. Falk and Sugiura. 1916, **8**, 39.
- (urotropin), Some observations on the elimination of. Falk and Sugiura. (Proceedings) 1916, **8**, 128.
- Higgins, H. L. Effect of alcohol on the respiration and the gaseous metabolism in man. 1917, **9**, 441.
- , and Means, J. H. The effect of certain drugs on the respiration and gaseous metabolism in normal human subjects. 1915, **7**, 1.

- Hill, F. M. On the non-influence of rise in body temperature induced by drugs upon the protein quotient and the enumeration of white corpuscles. 1919, **12**, 1.
- Hinkel, F. C., and Salant, William. The influence of alcohol on the composition of urine. 1910, **1**, 493.
- , and Salant, W. The influence of alcohol on the composition of urine. (Proceedings) 1910, **1**, 574.
- Hirschfelder, A. D. Does atropine alter the effects of digitalis upon the tonus of the heart muscle? (Proceedings) 1918, **11**, 177.
- , Effect of digitalis in experimental auricular fibrillation. (Proceedings) 1914-15, **6**, 597.
- , Effects of drugs upon the vessels of the pia mater and retina. (Proceedings) 1914-15, **6**, 597.
- , Bicek, J., and Kucera, F. J. The effect of high temperature upon the action and toxicity of digitalis. (Proceedings) 1920, **15**, 238.
- , Bicek, J., Kucera, F. J., and Hanson, W. The effect of high temperature upon the action and toxicity of digitalis. 1920, **15**, 427.
- , and Cantwell, W. Effects of some amino acids upon excised segments of intestine. (Proceedings) 1918, **11**, 178.
- , Hart, M. C., and Kucera, F. J. Further studies on saligenin: its mercury derivatives and allied compounds. (Proceedings) 1921, **17**, 325.
- , Lundholm, Arthur and Norrgard, Henry. The local anesthetic action of saligenin and other phenyl carbinols. (Proceedings) 1920, **15**, 237.
- , Lundholm, Arthur, and Norrgard, Henry. The local anesthetic actions of saligenin and other phenyl carbinols. 1920, **15**, 261.
- , and Pankow, L. J. A comparison of the antiseptic action of various aromatic ethoxy and hydroxy compounds upon the pneumococcus and gonococcus. (Proceedings) 1922, **19**, 248.
- , and Quigley, J. P. The relation of substitution in the carbinol group to the pharmacological action of some phenyl carbinols. (Proceedings) 1921, **17**, 326.
- Hirudin preparations, The toxicity of certain. Marshall. 1915, **7**, 157.
- Histamine, Action of ergot and its constituents, ergotoxin, and. Studies on the vasomotor centre. XII. Pilcher and Sollmann. 1914-15, **6**, 385.
- and a histamine-like substance as decomposition products of albumoses. Nagayama. 1920, **15**, 401.
- and pituitary extract. Cow. 1920, **14**, 275.
- , and pituitary extract. Abel and Macht. 1920, **14**, 279.
- (β -iminazoyl-ethylamine), On the presence of, in the hypophysis cerebri and other tissues of the body and its occurrence among the hydrolytic decomposition products of proteins. Abel and Kubota. 1919, **13**, 243 and. (Proceedings) 1919, **13**, 509.
- , Evaluation of the hormone of the infundibulum of the pituitary gland in terms of, with experiments on the action of repeated injections of the hormone on the blood pressure. Abel and Rouiller. 1923, **20**, 65.
- , Note on the action of, upon surviving arteries. Barbour. 1912-13, **4**, 245.
- , On the pituitary active principles and. Dale and Dudley. 1921, **18**, 17.

- Histamine, On the presence of, in extracts of the posterior lobe of the pituitary gland and on preliminary experiments with the pressor constituent Abel and Nagayama. 1920, **15**, 347.
- , The action of peptone and, on the isolated small intestine. Olivecrona. 1921, **17**, 141.
- , The relation of, to intestinal intoxication. I. The presence of histamine in the human intestine. Meakins and Harington. 1921, **18**, 455.
- , The relation of, to intestinal intoxication. II. The absorption of histamine from the intestine. Meakins and Harington. 1923, **20**, 45.
- Hjort, A. M., and Barbour, H. G. Notes on the toxic effects of chlorine antiseptics in dogs. 1921, **18**, 201.
- , Barbour, H. G., and Taylor, F. A. Drugs after chlorine gassing. I. The influence of morphine upon the fatality of chlorine poisoning. 1920, **14**, 55.
- , and Eagan, J. T. Benzylcarbinol: A local anesthetic. 1920, **14**, 211.
- , and Kaufmann, C. E. The local anesthetic properties of phenyl-methyl carbinol. 1920, **15**, 129.
- , and Taylor, F. A. The effect of morphine upon the alkali reserve of the blood of dogs gassed with fatal concentrations of chlorine. 1919, **13**, 407.
- , and Underhill, F. P. Studies on the physiological action of some protein derivatives. IV. The toxicity of Vaughan's crude soluble poison. 1922, **19**, 145.
- Holarrhena congolensis, The action of conessine and holarrhenine, the alkaloids of, and also of oxyconessine. Burn. 1914-15, **6**, 305.
- Holarrhenine, The action of conessine and, the alkaloids of holarrhena congolensis, and also oxyconessine. Burn. 1914-15, **6**, 305.
- Holocaine, alypine, eucaine, novocaine and stovaine on the bladder. Waddell. 1917-18, **10**, 243.
- Homans, J., Voegtlin, Carl, and Bernheim, B. M. Anastomosis between the portal vein and the inferior vena cava (Eck's fistula). 1910, **1**, 463.
- Homatropine, Contribution to the chemico-pharmacodynamic relationship of atropine and. Macht. (Proceedings) 1922, **19**, 251.
- , Effect of, on the vagus. Zulick. 1914-15, **6**, 473.
- Homocholins and some of their derivatives, Some physiological actions of the. Hunt. 1914-15, **6**, 477.
- Honn, H. V., and Crawford, A. C. Some convenient laboratory apparatus. 1910, **1**, 175.
- Hooker, D. R. Perfusion of the mammalian medulla: note on the action of ethyl alcohol. 1917-18, **10**, 121.
- , Saline perfusion of the respiratory center in frogs: The effect of calcium chloride and potassium chloride. 1912-13, **4**, 443.
- , and Macht, D. I. Concerning the action of the iodide, bromide and nitrate ions on the respiratory center. 1918, **11**, 63.
- Hookworm larvae, The reaction of, to various chemicals. Schultz. (Proceedings) 1914-15, **6**, 599.
- Hooper, C. H., Voegtlin, Carl, and Johnson, J. M. Trinitro toluene poisoning. (Proceedings) 1919, **13**, 512.

- Hooper, C. H., Kolls, A. C., and Wright, K. D. Quantitative pathological studies with arsenic compounds. I. The influence of fasting and various diets on arspenamine poisoning and the comparative toxicity of arspenamine, neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide. 1921, **18**, 133.
- Hopkins, E. F. On dichlorethylsulphide (mustard gas). III. Solubility and hydrolysis of dichlorethylsulphide, with a new method for estimating small amounts of the same. 1912-13, **4**, 393.
- Hoskins, R. G. A consideration of some biologic tests for epinephrine. 1911-12, **3**, 93.
- , Efficacy of adrenaline by rectum. (Proceedings) 1921, **17**, 347.
- , The reaction to epinephrine administered by rectum. 1921, **18**, 207.
- , and Means, J. W. The relation of vascular conditions to pituitrin diuresis. 1912-13, **4**, 435.
- , and Ranson, S. W. The vasomotor reaction to nicotine locus of stimulation. 1915, **7**, 375.
- Howard, Merrill, Brown, E. D., and Ahlfs, Jacob. Experiments on the toxicity of picric acid on the frog and on the rabbit. (Proceedings) 1920, **15**, 235.
- Huber, H. L. The pharmacology and toxicology of copper salts of amino acids. Studies on the biochemistry and chemotherapy of tuberculosis. XVI. 1918, **11**, 303.
- Hunger mechanism, Action of the so-called stomachics or bitters on the. Contribution to the physiology of the stomach. XVI. Carlson, Van de Erve, Lewis and Orr. 1914-15, **6**, 209.
- Hunt, H. R., and Schultz, W. H. Some pathological phenomena following inhalation of chlorine gas. (Proceedings) 1918, **11**, 181.
- Hunt, Reid. A physiological test for choline and some of its applications. 1915, **7**, 301.
- , Some physiological actions of the homocholins and of some of their derivatives. 1914-15, **6**, 477.
- , and Seidell, Atherton. Thyreotropic iodine compounds. 1910-11, **2**, 15.
- , and Taveau, R. deM. On the relation between the toxicity and chemical-constitution of a number of derivatives of choline and analogous compounds. 1910, **1**, 303.
- Hyalin casts in the urine of dogs following the intra-intestinal injection of magnesium sulphate, Appearance of. Gates. 1914-15, **6**, 610.
- Hyatt, E. G., and Jensen, V. W. The action of alcohol on the respiratory and vasomotor centers. (Proceedings) 1918, **11**, 173.
- , and McGuigan, Hugh. The primary depression and secondary rise in blood pressure caused by epinephrine. 1919, **12**, 59.
- , McGuigan, Hugh, and Rettig, F. A. The action of chloral on the pupil. 1920, **15**, 415.
- Hydrastine. Action of hydrastinine, cotarnine, emetine, some pyridine derivatives and, with a further analysis of the opium action. On the pharmacology of the ureter. IV. Macht. 1917, **9**, 287.
- , The action of hydrastis; its alkaloids berberine and, and the derivatives hydrastinine and cotarnine. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.

- Hydrastinine, Action of hydrastine, cotarnine, emetine, some pyridine derivatives and, with a further analysis of the opium action. On the pharmacology of the ureter. IV. Macht. 1917, **9**, 287.
- , The action of hydrastis; its alkaloids, hydrastine and berberine; and the derivatives cotarnine and. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- Hydrastis, The action of, and of its alkaloids hydrastine and berberine; and the derivatives hydrastinine and cotarnine. Studies on the vasomotor centre. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- Hydrocyanic acid, The action of, on the respiration and the antagonistic action of sodium iodosobenzoate. Grove and Loevenhart. 1911-12, **3**, 131.
- Hydrogen ion concentration, The effect of, on the toxicity of alkaloids for Paramoecium. Crane. 1921, **18**, 319.
- ion concentration, The swelling of colloids and. Henderson, Palmer and Newburgh. 1913-14, **5**, 449.
- , On insufflation of the lungs with carbon dioxide, air and. Guthrie, Guthrie and Ryan. 1910-11, **2**, 49.
- , On insufflation of the lungs with carbon dioxide, air and. Guthrie. (Proceedings) 1910, **1**, 576.
- sulphide, The toxicology of. Haggard. (Proceedings) 1922, **19**, 262.
- Hydrolytic decomposition products of proteins, On the presence of histamine (β -iminazoly-ethylamine) in the hypophysis cerebri and other tissues of the body and its occurrence among the. Abel and Kubota. 1919, **13**, 243 and. (Proceedings) 1919, **13**, 509.
- Hydrophilic colloids, The protective action of, on the agglutination of red blood cells by arspenamine. Biological reactions of arspenamine. II. Oliver and Yamada. 1922, **19**, 199.
- Hydroxy-codeine, The action of. Greenlees. 1912-13, **4**, 109.
- derivatives of succinate, Experiments with succinate and. Connet, Salant and Livingston. 1917-18, **10**, 129.
- Hydroxyhydrindamine, Comparative action of the stereo-isomers of. Ikeda. 1915, **7**, 121.
- Hyosines and hyoscyamines. Optical isomers. VII. Cushny. 1921, **17**, 41.
- Hyoscyamines and hyosines. Optical isomers. VII. Cushny. 1921, **17**, 41.
- Hypoglycemia. McGuigan. (Proceedings) 1914-15, **6**, 604.
- Hyperglycemia, A note on adrenaline, in man. Ulrich and Rypins. 1922, **19**, 215.
- , Effect of atropine on chloroform. Ross. 1920, **15**, 135.
- , Effect of atropine on ether. Ross. 1919, **12**, 377.
- , Epinephrine. Tatum. (Proceedings) 1921, **17**, 336.
- , Epinephrine. I. Tatum. 1921, **17**, 395.
- , Epinephrine. II. Tatum. 1921, **18**, 121.
- , Further observations on ether, in the absence of the adrenals. Stewart and Rogoff. (Proceedings) 1920, **15**, 238.
- , Picrotoxin. Tatum. 1923, **20**, 385.
- Hypertonic solutions, The action of urea and, on the heart and circulation. Eyster and Wilde. 1910, **1**, 391.
- solutions, The effects on the circulation of urea and. Eyster. (Proceedings) 1910, **1**, 576.

- Hypophysis cerebri, On the presence of histamine (β -iminazolyl-ethylamine) in the, and other tissues of the body and its occurrence among the hydrolytic decomposition products of proteins. Abel and Kubota. 1919, **13**, 243 and (Proceedings) 1919, **13**, 509.
- Ikeda, Yasuo. Comparative action of the stereo-isomers of hydroxyhydrindamine. 1915, **7**, 121.
- . Effect of drugs on inflammation of the frog's mesentery. 1916, **8**, 137.
- . Quinine and atropine in inflammation of frog's mesentery. 1916, **8**, 101.
- Ileo-colic sphincter, Observations of the effects of drugs on the. Kuroda. 1917, **9**, 187.
- "Imidazolisopiperidin" of Fränkel (tetrahydropyrido-3,4-iminazole), The physiological action of n-methylhistamine and of. Dale and Dudley. 1921, **18**, 103.
- Immunization of animals to the poisons in fungi, Further observations on the. Ford. 1910-11, **2**, 145.
- Inchley, O. A simple method for the determination of the coagulation time of blood in animals. 1921, **18**, 237.
- . The influence of the electric current on the absorption of drugs. 1921, **18**, 241.
- Infection, The action of drugs in. I. The influence of morphine in experimental septicemia. Kraft and Leitch. 1921, **17**, 377.
- Inflammation of the frog's mesentery, The effect of drugs on. Ikeda. 1916, **8**, 137.
- Inflammatory reactions, The influence of oxygen upon. Amberg, Loevenhart and McClure. 1917-18, **10**, 209.
- Infundibular (pituitary) extracts, A method of standardising. Dale and Laidlaw. 1912-13, **4**, 75.
- Infundibulum, Evaluation of the hormone of the, of the pituitary gland in terms of histamine, with experiments on the action of repeated injections of the hormone on the blood pressure. Abel and Rouiller. 1923, **20**, 65.
- Insufflation, Differences in the toxic effects of ether and chloroform, as observed under intratracheal. Githens and Meltzer. (Proceedings) 1912-13, **4**, 355.
- of the lungs, with hydrogen, carbondioxide and air. Guthrie. (Proceedings) 1910, **1**, 576.
- of the lungs with hydrogen; with carbon dioxide; and with air. Guthrie, Guthrie and Ryan. 1910-11, **2**, 49.
- , The control of strychnine poisoning by means of ether and. Githens and Meltzer. (Proceedings) 1910-11, **2**, 404.
- , The control of strychnine poisoning by means of ether and intratracheal. Githens and Meltzer. 1910-11, **2**, 357.
- Intestinal absorption of alcohol. Hanzlik. (Proceedings) 1912-13, **4**, 344.
- intoxication, The relation of histamine to. I. The presence of histamine in the human intestine. Meakins and Harington. 1921, **18**, 455.
- intoxication, The relation of histamine to. II. The absorption of histamine from the intestine. Meakins and Harington. 1923, **20**, 45.
- movements, Effect of caffeine on. Plant and Reynolds. (Proceedings) 1922, **19**, 256.

- Intestinal segments, Action of certain volatile oils on isolated. Miurhead and Gerald. 1916, **8**, 253.
- Intestine, Changes in the rhythmicity, irritability and tone in the purged. Alvarez and Taylor. 1917-18, **10**, 365.
- , Effect of some amino acids upon excised segments of. Hirschfelder and Cantwell. (Proceedings) 1918, **11**, 178.
- , Effects of various colloids and other agents which produce anaphylaxtoid phenomena on surviving uterus and. Hanzlik. 1920, **14**, 468.
- , The action of histamine and peptone on the isolated small. Olivecrona. 1921, **17**, 141.
- , The action of sodium citrate on the isolated. Salant and Schwartz. 1917, **9**, 497.
- , The action of succinate and its hydroxy derivatives on the isolated. Salant, Mitchell and Schwartz. 1917, **9**, 511.
- , The actions of drugs on different parts of the. Alvarez. (Proceeding) 1918, **11**, 171.
- , The effect of carminative volatile oils on the muscular movements of the. Plant. 1921, **16**, 311.
- Intestines, Fatal action of magnesium sulphate by absorption from the. Auer and Meltzer. (Proceedings) 1913-14, **5**, 524.
- , Studies upon the action of certain salts on the isolated. Tyrode. (Proceedings) 1910, **1**, 570.
- Intoxication, The relation of histamine to intestinal. I. The presence of histamine in the human intestine. Meakins and Harington. 1921, **18**, 455.
- , The relation of histamine to intestinal. II. The absorption of histamine from the intestine. Meakins and Harington. 1923, **20**, 45.
- Intoxications, Studies of chronic, on albino rats. I. Organization of the investigations. Sollmann, Schettler and Wetzel. 1921, **16**, 273.
- , Studies of chronic, on albino rats. II. Alcohols (ethyl, methyl and "wood") and acetone. Sollmann. 1921, **16**, 291.
- , Studies of chronic, on albino rats. III. Acetic and Formic acids. Sollmann. 1921, **16**, 463.
- , Studies of chronic, on albino rats. IV. Fluoride, chloride and calcium, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- , Studies of chronic, on albino rats. V. Arsenic trioxid. Sollmann. 1921, **18**, 43.
- , Studies of chronic, on albino rats. VI. Lead carbonate. Sollmann. 1922, **19**, 375.
- Intracranial pressure, The action of respiratory stimulants upon the respiration when depressed by increased, with special reference to sodium cyanide. Studies of stimulation of the respiration. Loevenhart, Malone and Martin. 1922, **19**, 13.
- Intramuscular absorption. Auer and Meltzer. (Proceedings) 1910-11, **2**, 402.
- versus subcutaneous absorption. Rowntree and Geraghty. (Proceedings) 1911-12, **3**, 460.
- Intrapericardial medication and massage in the treatment of arrest of the heart. Gunn and Martin. 1915, **7**, 31.

- Intrapleural injections of ethylhydrocuprein hydrochloride, Route of administration of drugs in relation to toxicity in chemotherapeutic investigations with special reference to. Kolmer. 1921, **17**, 431.
- Intratracheal insufflation and ether, The control of strychnine poisoning by means of. Githens and Meltzer. 1910-11, **2**, 357.
- , insufflation, Differences in the toxic effects of ether and chloroform, as observed under. Githens and Meltzer. (Proceedings) 1912-13, **4**, 355.
- Intravenous injection in the guinea pig, The fatal dose of various substances on. Amberg and Helmholtz. (Proceedings) 1914-15, **6**, 595.
- injections of fluids, Uterine effects of. Barbour and Rapoport. 1921, **18**, 407.
- Iod-, iodoso- and oxyiodosobenzoic acids, Pharmacological action of. A preliminary note. Loevenhart and Grove. 1910, **1**, 289.
- Iodates, iodide and iodine in the body, The fate of. Sollmann. 1917, **9**, 269.
- , iodine and iodides, Fate of in the body. Sollmann. (Proceedings) 1917, **9**, 350.
- Iodobenzoic acids, On the antiseptic and bactericidal action of the sodium salts of iodosobenzoic, iodoxybenzoic and. Arkin. 1911-12, **3**, 145.
- Iodide absorption, inhibition of, by chloride. Hanzlik and Sollmann. (Proceedings) 1911-12, **3**, 473.
- compounds, On the drugfastness of spirochaetae in vitro against certain arsenical mercurial and. Noguchi and Akatsu. (Proceedings) 1917, **9**, 363.
- , iodine and iodates in the body, The fate of. Sollmann. 1917, **9**, 269.
- ions, Concerning the action of the bromide, nitrate and, on the respiratory center. Macht and Hooker. 1918, **11**, 63.
- Iodides, Action of, on the heart and blood vessels. Macht. (Proceedings) 1913-14, **5**, 514.
- , iodates and iodine, Fate of, in the body. Sollmann. (Proceedings) 1917, **9**, 350.
- Iodine absorption from the human skin. Wetzel and Sollmann. 1920, **15**, 169.
- compounds, Thyreotropic. Hunt and Seidell. 1910-11, **2**, 15.
- containing hormone, How rapidly does the intact thyroid gland elaborate its specific. Marine and Rogoff. 1917, **9**, 1.
- containing principle of the thyroid gland, Studies concerning the. I. Pharmacological action and therapeutic behavior of diiodotyrosin. Strouse and Voegtlin. 1910, **1**, 123.
- effect on fibrous nodules. Sollmann. 1919, **13**, 495.
- , Iodates and iodides, Fate of, in the body. Sollmann. (Proceedings) 1917, **9**, 350.
- , iodide and iodates in the body, The fate of. Sollmann. 1917, **9**, 269.
- , Systemic interaction of thio-sulphate and. Meyers and Ferguson. (Proceedings) 1921, **17**, 347.
- , The effect of, upon the unfertilized and fertilized eggs of, sea urchins. Lyon. (Proceedings) 1918, **11**, 185.
- , The influence of, on the heart. Salant and Livingston. (Proceedings) 1916, **8**, 119.
- , The physiological action of the fumes of. Luckhardt, Koch, Schroeder and Weiland. 1920, **15**, 1.

- Iodine-thyroid distribution and mobilization, A study of. van Dyke. (Proceedings) 1921, **17**, 335.
- Iodoso-, iod-, and oxyiodosobenzoic acids, Pharmacological action of. A preliminary note. Loevenhart and Grove. 1910, **1**, 289.
- and iodoxybenzoic acids, Further observations on the action of. Loevenhart. (Proceedings) 1910-11, **2**, 403.
- Iodosobenzoic acid, On the antiseptic and bactericidal action of the sodium salts of iodbenzoic, iodoxy-benzoic and. Arkin. 1911-12, **3**, 145.
- Iodoxybenzoic acid, On the antiseptic and bactericidal action of the sodium salts of iodbenzoic and iodoso-benzoic and. Arkin. 1911-12, **3**, 145.
- acids, Further observations on the action of iodoso- and. Loevenhart. (Proceedings) 1910-11, **2**, 403.
- Ipecac alkaloids and some synthetic derivatives of cephaeline. Studies on toxicity. I. Walter and Koch. 1917-18, **10**, 73.
- alkaloids and some synthetic derivatives of cephaeline, Pharmacological studies of the. II. Studies on emetic effect and irritant action. Walters, Eckler and Koch. 1917-18, **10**, 185.
- alkaloids and some synthetic derivatives of cephaeline, Pharmacological studies of the. III. Studies on protozoöcidal and bactericidal studies. Walters, Baker and Koch. 1917-18, **10**, 341.
- in the treatment of blackhead in turkeys. Graybill. 1923, **20**, 115.
- , Observations on the effect of, in the treatment of infectious enterohepatitis (blackhead) in turkeys. Wegforth and Wegforth. 1921, **17**, 249.
- Irrigation, Experimental, of the subarachnoid space. Weed and Wegforth. 1919, **13**, 317.
- Iris, The influence of physostigmine upon the sphincter muscle of the. Joseph. (Proceedings) 1917, **9**, 357.
- , The mutually antagonistic actions of adrenaline and physostigmine upon the sphincter muscle of the. Joseph. (Proceedings) 1917, **9**, 358.
- Irvine, A., and Hanzlik, P. J. The toxicity of some thioureas and thiuram-disulphides. 1921, **17**, 349.
- Isaacs, S., and Macht, D. I. The effect of morphine and opium on psychological reaction time. (Proceedings) 1917, **9**, 351.
- , Macht, D. I., and Greenberg, J. The effect of some antipyretics on the acuity of hearing. 1920, **15**, 149.
- Isocalycanthine and its quaternary base. McGuigan and Hess. 1911-12, **3**, 441.
- Isothymol (carvacrol), The comparative toxicity of thymol and. Livingston. 1921, **17**, 261.
- Iso-urea derivatives, The pharmacological properties of some. Basterfield. 1923, **20**, 451.
- Ivy (*hedera helix*), The chemical and pharmacological properties of hederin, a sapoglucoside contained in the leaves of common. Moore. 1912-13, **4**, 263.
- Jackson, D. E. A note on the pharmacological action of opium alkaloids. 1914-15, **6**, 57.
- On the production of experimental cephalic coma. 1912-13, **4**, 33.
- Some observations on anaesthesia and analgesia. (Proceedings) 1916, **8**, 113.

- Jackson, D. E. The action of certain drugs on the bronchioles. 1913-14, **5**, 479.
- . The peripheral action of certain drugs with special reference to the lungs. 1912-13, **4**, 291.
- . The pharmacological action of certain substances on the bronchioles. 1913-14, **5**, 519.
- . The pharmacological action of vanadium. 1911-12, **3**, 477.
- . The pulmonary action of the adrenal glands. 1912-13, **4**, 59.
- . The pulmonary action of vanadium together with a study of the peripheral reactions to the metal. 1912-13, **4**, 1.
- , and Lawrence, J. V. A note on the action of silver salvarsan. (Proceedings) 1922, **19**, 265.
- , Lawrence, J. V. and Friedlander, Alfred. Observations on the pharmacological action of quinidine. (Proceedings) 1922, **19**, 263.
- , Mills, C. A., and Raap, Gerard. The relation between the blood coagulating and the smooth muscle contracting properties of tissue extracts. (Proceedings) 1921, **17**, 341.
- , and Pelz, M. D. Experimental observations on anaphylaxis in the dog. (Proceedings) 1918, **11**, 173.
- , and Pelz, M. D. The distribution and function of certain nerves in chelonians. (Proceedings) 1918, **11**, 169.
- , and Smith, M. I. An experimental investigation of the cause of early death from arsphenamine, and of certain other features of the pharmacological action of the substance. 1919, **12**, 221.
- Jaundice, Rôle of the portal circulation of the liver in bile formation and. Voegtlin and Bernheim. (Proceedings) 1910-11, **2**, 404.
- , Rôle of the portal circulation of the liver in bile formation and. Voegtlin and Bernheim. 1910-11, **2**, 455.
- Jensen, J. P., and Emge, L. A. The effect of benzyl benzoate on the leucocytes of the rabbit. 1921, **17**, 415.
- Jensen, V. W. and Hyatt, E. G. The action of alcohol on the respiratory and vasomotor centers. (Proceedings) 1918, **11**, 173.
- , and Rumry, F. L. Straub's biologic test for opium alkaloids. (Proceedings) 1918, **11**, 178.
- Johnson, J. M., Voegtlin, Carl, and Hooper, C. H. Trinitro toluene poisoning. (Proceedings) 1919, **13**, 512.
- Johnson, S. L., Bollinger, H. J., and Macht, D. I. On the peripheral action of the opium alkaloids. Effect on the sensory nerve terminals. 1916, **8**, 451.
- Joint fluid of individuals receiving full therapeutic doses of salicylate, Salicyl in blood and. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 130.
- fluid of individuals receiving full therapeutic doses of the drug, Salicylate in the blood and. The salicylates. IV. Scott, Thoburn and Hanzlik. 1917, **9**, 217.
- Jones, Walter. The application of the Kjeldahl method to compounds of brucine, with reference to the brucine salt of a new nucleotide. 1919, **13**, 489.
- , and Kennedy, R. P. Adenine mononucleotide. 1919, **12**, 253.
- , and Kennedy, R. P. Adenine mononucleotide. 1919, **13**, 45.
- Jordan, H. E., and Schultz, W. H. Physiological studies in anaphylaxis: III. A microscopic study of the anaphylactic lung of the guinea-pig and mouse. 1910-11, **2**, 375.

- Joseph, D. R. On the convulsant action of acid fuchsin in cardiectomized frogs after removal of the anterior lymph hearts. 1914-15, **6**, 83.
- , The effect of CO₂ upon the convulsant action of acid fuchsin in frogs. (Proceedings) 1914-15, **6**, 603.
- , The influence of physostigmine upon the sphincter muscle of the iris. (Proceedings) 1917, **9**, 357.
- , The mutually antagonistic actions of adrenaline and physostigmine upon the sphincter muscle of the iris. (Proceedings) 1917, **9**, 358.
- , and Meltzer, S. J. On a difference between the effects of intravenous and intra-aortic injections of curarin in frogs. (Proceedings) 1911-12, **3**, 465.
- , and Meltzer, S. J. On the convulsant action of acid fuchsin upon frogs deprived of their cardiac circulation. 1912, **3**, 183.
- , and Meltzer, S. J. Some observations on the physiological action of sodium chloride. 1910-11, **2**, 271.
- , and Meltzer, S. J. The comparative toxicity of the chlorides of magnesium, calcium, potassium and sodium. 1910, **1**, 1.
- , and Meltzer, S. J. The inhibitory action of sodium chloride upon the phenomena following the removal of the parathyroids in dogs. A preliminary communication. 1910-11, **2**, 361.
- , and Meltzer, S. J. The inhibitory action of sodium chloride upon the phenomena following the removal of the parathyroids in dogs. (Proceedings) 1910-11, **2**, 404.
- , and Meltzer, S. J. The life-saving action of physostigmine in poisoning by magnesium salts. 1910, **1**, 369.
- Kahn, Max, and Salant, William. Further observations on caffeine glycosuria. (Proceedings) 1913-14, **5**, 512.
- , and Salant, William. Production of glycosuria by zinc. (Proceedings) 1913-14, **5**, 512.
- Kahn, R. L., and Mendel, L. B. The physiological action of some methylated purines. (Proceedings) 1912-13, **4**, 343.
- Kapsinow, Robert, and Underhill, F. P. Metabolism in chloroform poisoning. (Proceedings) 1922, **19**, 262.
- Karsner, H. T. The vascular reactions in experimental acute tartrate nephritis. 1917, **9**, 483.
- , and Hanzlik, P. J. A comparison of the prophylactic effects of atropine and epinephrine in anaphylactic shock and anaphylactoid phenomena from various colloids and arsphenamine. 1920, **14**, 425.
- , and Hanzlik, P. J. Anaphylactoid phenomena. (Proceedings) 1920, **15**, 246.
- , and Hanzlik, P. J. Anaphylactoid phenomena from the intravenous administration of various colloids, arsenicals and other agents. 1920, **14**, 379.
- , and Hanzlik, P. J. Effects of various colloids and other agents which produce anaphylactoid phenomena on bronchi of perfused lungs. 1920, **14**, 449.
- , and Hanzlik, P. J. Hemagglutination in vitro by agents which produce anaphylactoid symptoms. (Proceedings) 1920, **15**, 247.
- , and Hanzlik, P. J. Hemagglutination in vitro by agents which produce anaphylactoid symptoms. 1920, **14**, 479.

- Karsner, H. T., Hanzlik, P. J., and Fetterman, Joseph. Anaphylactoid phenomena from thromboplastic agents. 1920, **14**, 229.
- Kations, Penetration of, into living cells. Brooks. (Proceedings) 1922, **19**, 272.
- Kaufmann, C. E., and Hjort, A. M. The local anesthetic properties of phenyl methyl carbinol. 1920, **15**, 129.
- Keeton, R. W., Sloan, L. H., and McGuigan, Hugh. The segmental action of strychnine. 1916, **8**, 143.
- Keith, N. M., and Lamson, P. D. The rôle of the liver in acute polycythaemia. III. The relation of plasma volume to the number of erythrocytes per unit volume of blood. 1916, **8**, 247.
- Kellaway, C. H. The toxicity of the blood of adrenalectomised frogs. 1921, **18**, 399.
- Kennedy, R. P., and Jones, Walter. Adenine mononucleotide. 1919, **12**, 253.
- , and Jones, Walter. Adenine mononucleotide. 1919, **13**, 45.
- Kidney, A preliminary paper on the relation between the amount of stainable lipid material in the renal epithelium and the susceptibility of the, to the toxic effect of the general anesthetics. MacNider. 1921, **17**, 289.
- , A study of the relative importance in the nephritic, of a responsive vascular mechanism, as compared with a functionally responsive epithelium in determining the efficiency of various diuretics. MacNider. (Proceedings) 1914-15, **6**, 599.
- , following the use of a general anesthetic, The ability of an alkaline solution to influence the amount of stainable lipid material that appears in the. Naturally nephropathic animals. MacNider. 1923, **20**, 365.
- , Further data relating to the value of phenolsulphonephthalein in estimating the functional capacity of the. Rowntree and Geraghty. (Proceedings) 1910-11, **2**, 393.
- , in acute uranium nephritis, The vascular response of the,—the influence of the vascular response on diuresis. MacNider. 1914-15, **6**, 123.
- , in acute uranium nephritis, The vascular response of the. The influence of the vascular response on diuresis. MacNider. (Proceedings) 1913-14, **5**, 520.
- , injury, A study of acute mercuric chloride intoxication in the dog with special reference to the. MacNider. (Proceedings) 1918, **11**, 186.
- , The effects of the section of the renal nerves on the secretion of the. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- , The effects of unilateral excision of the adrenal, section of the splanchnic nerve and section of the renal nerves on the secretion of the. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- , The inhibition of the toxicity of anesthetics for the nephropathic. MacNider. (Proceedings) 1916, **8**, 116.
- , The production of renal changes by oil of chenopodium and fatty oils, and the protective action of diet on the. Salant and Bengis. 1917, **9**, 529.
- , Urine formation by the perfused: preliminary experiments on the action of caffeine. Richardson and Plant. 1915, **7**, 485.
- Kidneys, An experimental and clinical study of the functional activity of the, by means of phenolsulphonephthalein. Rowntree and Geraghty. 1910, **1**, 579.

- Kidneys, The influence of the adrenals on the. Marshall and Davis. (Proceedings) 1916, **8**, 111.
- , Influence of the adrenals on the. Marshall and Davis. 1916, **8**, 525.
- , On the use of phenolsulphonephthalein in estimating the function of the. Rowntree and Geraghty. (Proceedings) 1910, **1**, 576.
- , The effect of nicotine on, after unilateral section of the splanchnic nerve. Kolls and Marshall. (Proceedings) 1917, **9**, 347.
- , The elimination of strychnine by the. Hatcher and Smith. 1917, **9**, 27.
- Killian, J. A., and Myers, V. C. Studies on the influence of phenylcinchoninic acid and the ethyl ester of paramethylphenylcinchoninic acid on renal excretion. 1921, **18**, 213.
- Kjeldahl method, The application of the, to compounds of brucine, with reference to the brucine salt of a new nucleotide. Jones. 1919, **13**, 489.
- Kleiner, I. S. On the effect of sodium bicarbonate and sodium chloride upon the convulsions produced by heroin and strychnine. (Proceedings) 1912-13, **4**, 357.
- , and Meltzer, S. J. The reduction of the toxicity of strychnine by the simultaneous administration of large quantities of indifferent fluids. (Proceedings) 1917, **9**, 359.
- Kleiner, S. B., and Barbour, H. G. The action of caffeine and of epinephrine upon the vagus nerve. 1915, **7**, 541.
- Kleitman, Nathaniel, and Salant, William. Experiments with aconitine and barium on the isolated heart. (Proceedings) 1922, **19**, 257.
- , and Salant, William. Further observations on the action of heavy metals. (Proceedings) 1921, **17**, 332.
- , and Salant, William. Further studies on the action of mercury. (Proceedings) 1922, **19**, 253.
- , and Salant, William. Pharmacological studies on acetone. 1922, **19**, 293.
- , and Salant, William. Some observations on the action of mercury. 1922, **19**, 315.
- , and Salant, William. Studies on the action of barium. 1923, **20**, 247.
- , and Salant, William. Studies on the pharmacology of sodium citrate. I. The influence of sodium citrate on respiration and circulation. 1923, **20**, 481.
- , and Salant, William. The pharmacology of citrates. (Proceedings) 1922, **19**, 254.
- , and Salant, William. The toxicity of skatol. 1922, **19**, 307.
- Knowlton-Starling isolated heart-lung preparation for testing the cardiac action of drugs, A note on the efficiency of the. Plant. 1913-14, **5**, 603.
- Knox, J. H. M., Jr., and Amberg, Samuel. The influence of sodium iodoxybenzoate and sodium cyanide upon an allergic reaction of inflammatory character. 1911-12, **3**, 223.
- Knudson, Arthur, and Dresbach, Melvin. A chemical method of assaying the active principles of digitalis. 1923, **20**, 205.
- , and Dresbach, Melvin. A proposed method of chemically assaying active principles of the digitalis group. (Proceedings) 1922, **19**, 267.
- Koch, E. W., and Walters, A. L. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. I. Studies on toxicity. 1917-18, **10**, 73.

- Koch, E. W., Walters, A. L., and Baker, W. F. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. III. Studies on protozoöcidal and bactericidal action. 1917-18, **10**, 341.
- , Walters, A. L., and Eckler, C. R. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. II. Studies on emetic effect and irritant action. 1917-18, **10**, 185.
- Koch, F. C., Schroeder, W. F., Weiland, A. H., and Luckhardt, A. B. The physiological action of the fumes of iodine. 1920, **15**, 1.
- Koch, W. Pharmacological studies on the phosphatides. Methods for the study of their combinations with drugs and other substances. 1910-11, **2**, 239.
- , and McLean, F. C. The relation of the phosphatides to Overton and Meyer's theory of narcosis. 1910-11, **2**, 249.
- , and Mostrom, H. T. The function of the brain phosphatides in the physiological action of strychnine. 1910-11, **2**, 265.
- , and Pike, F. H. The relation of the phosphatides to the sodium and potassium of the neuron. 1910-11, **2**, 245.
- , and Williams, A. W. The relation of brain phosphatides to tissue metabolites. 1910-11, **2**, 253.
- Koelker, A. H., and Amberg, Samuel. In regard to the detoxification of benzoic acid by optical isomers of leucin. 1910-11, **2**, 59.
- Kolls, A. C. An apparatus for continuous blood pressure tracings in man. 1920, **15**, 433.
- , An indirect method for the determination of blood pressure in the unanesthetized dog. 1920, **15**, 443.
- , Hooper, C. W., and Wright, K. D. Quantitative pathological studies with arsenic compounds. I. The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of arsphenamine, neoarsphenamine and para-oxy-meta-amino-phenyl-arsenoxide. 1921, **18**, 133.
- , and Marshall, E. K., Jr. An apparatus for the administration of gases and vapors to animals. 1919, **12**, 385.
- , and Marshall, E. K., Jr. The effect of nicotine on the two kidneys after unilateral section of the splanchnic nerve. (Proceedings) 1917, **9**, 347.
- , and Marshall, E. K., Jr. The effects of the section of the renal nerves on the secretion of the kidney. (Proceedings) 1917, **9**, 346.
- , and Marshall, E. K., Jr. The effects of unilateral excision of the adrenal, section of the splanchnic nerve and section of the renal nerves on the secretion of the kidney. (Proceedings) 1917, **9**, 346.
- , and Marshall, E. K., Jr. The secretion of urine and action of diuretics as influenced by blood flow and reduction of renal substance. (Proceedings) 1919, **13**, 507.
- Kolmer, J. A. Route of administration of drugs in relation to toxicity in chemotherapeutic investigations with special reference to intrapleural injections of ethylhydrocuprein hydrochloride. 1921, **17**, 431.
- , Lucke, Baldwin, and McCouch, G. P. Influence of arsphenamine and neoarsphenamine on the epinephrine content of the adrenal glands. 1923, **20**, 153.
- Kraft, Adolph, and Leitch, N. M. The action of drugs in infection. I. The influence of morphine in experimental septicemia. 1921, **17**, 377.

- Kruse, T. K. A direct method for carbon monoxide in blood. (Proceedings) 1921, **17**, 332.
- , The influence of veratrine and epinephrine on skeletal muscle. (Proceedings) 1922, **19**, 266.
- , The rôle of the bromide salts on rhythmically contracting organs. I. The action of the bromides on the isolated mammalian heart. 1920, **14**, 137.
- , The rôle of the bromide salts on rhythmically contracting organs. II. The action of the bromides on smooth muscle. 1920, **14**, 149.
- Kubota, Seiko. An experimental study of the venom of the Manchurian scorpion. 1918, **11**, 379.
- , On the pharmacological action of allocain S (a new local anesthetic). 1919, **12**, 361.
- , On the toxicity of the venom of the Mexican (Durango) scorpion as compared with that of the Chinese scorpion. 1918, **11**, 447.
- , and Abel, J. J. On the presence of histamine (β -iminazolyethylamine) in the hypophysis cerebri and other tissues of the body and its occurrence among the hydrolytic decomposition products of proteins. 1919, **13**, 243 and. (Proceedings) 1919, **13**, 509.
- , and Macht, D. I. Action of local anesthetics on striated muscle. (Proceedings) 1919, **13**, 507.
- , and Macnt, D. I. Concerning the action of local anesthetics on striated muscle. 1919, **13**, 31.
- Kucera, F. J., Hanson, W., Hirschfelder, A. D., and Bicek, J. The effect of high temperature upon the action and toxicity of digitalis. 1920, **15**, 427.
- , Hirschfelder, A. D. and Bicek, J. The effect of high temperature upon the action and toxicity of digitalis. (Proceedings) 1920, **15**, 238.
- , Hirschfelder, A. D., and Hart, M. C. Further studies on saligenin: its mercury derivatives and allied compounds. (Proceedings) 1921, **17**, 325.
- Kuroda, M. Observations of the effects of drugs on the ileo-colic sphincter. 1917, **9**, 187.
- , On the action of cocaine. 1915, **7**, 423.
- Kymograph tracings, Time recorder for. Closson. 1913-14, **5**, 235.
- Laboratory apparatus, Some convenient. Crawford and Honn. 1910, **1**, 175.
- Laburnum (cytissus-laburnum), Physiological action of cytisine the active alkaloid of. Dale and Laidlaw. 1911-12, **3**, 205.
- Lactic acid, The action of. Studies on the vasomotor centre. XVII. Pilcher and Sollmann. 1914-15, **6**, 409.
- acid, The effect of, on the respiratory center. Cohen. (Proceedings) 1918, **11**, 172.
- acid, The effect of, on the respiratory center. Cohen. 1918, **11**, 221.
- Laidlaw, P.P. Some examples of the effect of asymmetric nitrogen atoms on physiological activity. 1912-13, **4**, 461.
- , and Dale, H. H. A method of standardising pituitary (infundibular extracts). 1912-13, **4**, 75.
- , and Dale, H. H. The physiological action of cytisine, the active alkaloid of laburnum (cytissus laburnum), 1911-12, **3**, 205.

- Lake, G. C., and Voegtlin, Carl. Experimental mammalian polyneuritis produced by a diet deficient in antineuritic "vitamine." (Proceedings) 1918, **11**, 167.
- , and Voegtlin, Carl. The stimulating action of distilled water on the isolated uterus. (Proceedings) 1917, **9**, 352.
- Lamson, P. D. A non-clotting blood pressure apparatus. 1920, **15**, 75.
- , Certain aspects of the part played by the liver in the regulation of the blood volume. (Proceedings) 1922, **19**, 267.
- , Further studies on the rôle of the liver in acute polycythaemia. (Proceedings). 1916, **8**, 130.
- , Note concerning helenin. 1914-15, **6**, 413.
- , On the pharmacological action of helenin, the active principle of *helenium autumnale*. 1912-13, **4**, 471.
- , Rôle of the liver in acute polycythaemia: a mechanism for the regulation of the red corpuscle content of the blood. 1915, **7**, 169.
- , The part played by the liver in the regulation of blood volume and red corpuscle concentration in acute physiological conditions. 1921, **16**, 125.
- , The rôle of the liver in acute polycythaemia. II. The effect of epinephrine and emotional stimuli on the red corpuscle content of the blood in rabbits. 1916, **8**, 167.
- , The rôle of the liver in acute polycythaemia. IV. Further observations on the effect of shutting off the arterial blood supply to the liver, the reaction of the normal animal to epinephrine, and removal of the liver from the circulation. 1917, **9**, 129.
- , and Keith, N. M. The rôle of the liver in acute polycythaemia. III. The relation of plasma volume to the number of erythrocytes per unit volume of blood. 1916, **8**, 247.
- , and Nagayama, T. Blood volume and blood volume methods. 1920, **15**, 331.
- , and Roca, John. The liver as a blood concentrating organ. 1921, **17**, 481.
- , Turner, B. B., and Marshall, E. K. Observations on plasmapheresis. 1915, **7**, 129.
- Lang, R. S., and Hartman, F. A. Action of adrenaline on the spleen. 1919, **13**, 417.
- Larson, E. E., Weir, J. F., and Rowntree, L. G. Clinical and experimental studies in diabetes insipidus. (Proceedings) 1921, **17**, 333.
- Lathyrus sativus seeds, The constituents of, and their action. Dilling. 1920, **14**, 359.
- Lawrence, J. V., Friedlander, Alfred and Jackson, D. E. Observations on the pharmacological action of quinidine. (Proceedings) 1922, **19**, 263.
- , and Jackson, D. E. A note on the action of silver salvarsan. (Proceedings) 1922, **19**, 265.
- Laxative action of white mustard seed, An explanation of the. van Leersum. 1916, **8**, 285.
- properties of the tribasic salts of phenolphthalic acid. Rowntree. 1910-11, **2**, 469.
- Lead carbonate. Studies of chronic intoxications on albino rats. VI. Sollmann. 1922, **19**, 375.
- compounds, The pharmacological action of organic. Mason. (Proceedings) 1921, **17**, 340.

- Lead sulphide ores and lead sulphide, The solubility of, in human gastric juice. Woelfel and Carlson. 1913-14, **5**, 549.
- Leake, C. D. The action of morphine on the vomiting center in the dog. 1923, **20**, 359.
- Leavell, G., DeWitt, L. M. and Cadwell, S. M. Distribution of gold in animal tissues. Studies on the biochemistry and chemotherapy of tuberculosis. XVII. 1918, **11**, 357.
- Lecithin, A further analysis of the augmentor effect of, on the action of pilocarpine. On the influence of colloids on the action of non-colloidal drugs. V. Storm van Leeuwen and v. Szent Györgi. 1923, **20**, 1.
- Leitch, N. M., and Kraft, Adolph. The action of drugs in infection. I. The influence of morphine in experimental septicemia. 1921, **17**, 377.
- Leonard, C. S., Whelan, Julia and Loevenhart, A. S. The toxicological action of azulene. (Proceedings) 1921, **17**, 346.
- Leucin, Detoxification of benzoic acid by optical isomers of. Koelker and Amberg. 1910-11, **2**, 59.
- Leucocytes, Action of quinine on the. Roth. 1912-13, **4**, 157.
- of the rabbit, The effect of benzyl benzoate on the. Emge and Jensen. 1921, **17**, 415.
- , The action of quinine on. Roth. (Proceedings) 1911-12, **3**, 470.
- Lever, An improved lever for frog's heart and muscle strips. Ryan. (Proceedings) 1917, **9**, 362.
- Levine, V. E., and Morgulis, Sergius. A simplified method for the estimation of morphine, together with data on the distribution of the alkaloid in acute poisoning. (Proceedings) 1920, **15**, 240.
- Levy, C. S., Macht, D. I., and Herman, N. B. A quantitative study of the analgesia produced by opium alkaloids, individually and in combination with each other, in normal man. 1916, **8**, 1.
- Levy, R. L., and Cohn, A. E. Experiments dealing with certain effects of quinine sulphate on the dog's heart. (Proceedings) 1922, **19**, 259.
- , and Rowntree, L. G. Toxicity of various commercial preparations of emetine hydrochloride. (Proceedings) 1916, **8**, 120.
- Lewis, J. H., Van de Erve, J., Carlson, A. J., and Orr, S. J. Contributions to the physiology of the stomach. XVI. Action of the so-called stomachics or bitters on the hunger mechanism. 1914-15, **6**, 209.
- Lewis, P. A. Some further observations on the relation of vital stains to the tubercle. (Proceedings) 1912-13, **4**, 353.
- Lieb, C. C. A new time marker. 1917, **9**, 227.
- , and Cushny, A. R. On the pharmacology of the respiratory center. II. 1915, **6**, 451.
- , and McWhorter, J. E. Action of drugs on the isolated gall-bladder. 1915, **7**, 83.
- Lillie, R. S., Chambers, R. and Clower, G. H. A. Penetration of mustard gas into protoplasm and its mode of action. (Proceedings) 1919, **3**, 505.
- , Clower, G. H. A., and Chambers, R. On the penetration of dichloroethylsulphide (mustard gas) into marine organisms, and the mechanism of its destructive action on protoplasm. 1920, **14**, 75.

- Lipoid material, stainable, in the renal epithelium, A preliminary paper on the relation between the, and the susceptibility of the kidney to the toxic effect of the general anesthetics. MacNider. 1921, **17**, 289.
- material, stainable, The ability of an alkaline solution to influence the amount of, that appears in the kidney following the use of a general anesthetic. Naturally nephropathic animals. MacNider. 1923, **20**, 365.
- Liquids, Apparatus for recording the outflow of. Williams. 1910, **1**, 457.
- Liver as a blood concentrating organ. Lamson and Roca. 1921, **17**, 481.
- , Certain aspects of the part played by the, in the regulation of the blood volume. Lamson. (Proceedings) 1922, **19**, 267.
- , Effect of adrenaline and extracts of pancreas and, on blood dextrose. Ross and Davis. 1923, **20**, 121.
- , Effects of vasomotor depressants upon the volume of the. Edmunds. 1921, **18**, 155.
- function test, An improved method for using phenoltetrachlorphthalein as a. Rosenthal. 1922, **19**, 385.
- , Further observations on vaso-motor changes in the. Edmunds. (Proceedings) 1921, **17**, 347.
- in acute polycythemia: a mechanism for the regulation of the red corpuscle content of the blood. Lamson. 1915, **7**, 169.
- in acute polycythaemia, Further studies on the rôle of the. Lamson. (Proceedings) 1916, **8**, 130.
- in acute polycythaemia, The rôle of the. II. The effect of epinephrine and emotional stimuli on the red corpuscle content of the blood in rabbits. Lamson. 1916, **8**, 167.
- in acute polycythaemia, The rôle of the. III. The relation of plasma volume to the number of erythrocytes per unit volume of blood. Lamson and Keith. 1916, **8**, 247.
- in acute polycythaemia, The rôle of the. IV. Further observations on the effect of shutting off the arterial blood supply to the liver, the reaction of the normal animal to epinephrine, and removal of the liver from the circulation. Lamson. 1917, **9**, 129.
- in its relation to anaphylactic shock. Voegtlin and Bernheim. 1910-11, **2**, 507.
- plethysmograph, A simple. Edmunds. (Proceedings) 1913-14, **5**, 520.
- , Rôle of the portal circulation of the, in bile formation and jaundice. Voegtlin and Bernheim. (Proceedings) 1910-11, **2**, 404.
- , Rôle of the portal circulation of the, in bile formation and jaundice. Voegtlin and Bernheim. 1910-11, **2**, 455.
- , Some vasomotor reactions of the. Edmunds. (Proceedings) 1914-15, **6**, 606.
- , Some vasomotor reactions of the. With special reference to the presence of vasomotor nerves to the portal vein. Edmunds. 1914-15, **6**, 569.
- , The part played by the, in the regulation of blood volume and red corpuscle concentration in acute physiological conditions. Lamson. 1921, **16**, 125.
- Livingston, A. E. A study of oil of chenopodium and its components. (Proceedings) 1922, **19**, 266.
- , Comparative toxicity of thymol and cavaerol. (Proceedings) 1920, **15**, 234.

- Livingston, A. E. Parazol as a skin irritant. (Proceedings) 1919, **13**, 507.
- , Pharmacological action of mercury fulminate. (Proceedings) 1919, **13**, 507.
- , The comparative toxicity of thymol and carvacrol (isothymol). 1921, **17**, 261.
- , The pharmacological action of subdural injection of tikresol serum. (Proceedings) 1920, **15**, 247.
- , and Salant, William. Further studies on the pharmacological action of oil of chenopodium. (Proceedings) 1916, **8**, 122.
- , and Salant, William. Influence of iodine on the heart. (Proceedings) 1916, **8**, 119.
- , and Salant, William. The action of succinate and its derivatives. (Proceedings) 1917, **9**, 344.
- , Salant, William, and Connet, Helene. Experiments with succinate and its hydroxy derivatives on the isolated frog heart. 1917-18, **10**, 129.
- , and Voegtlin, Carl. Benzyl alcohol as a spinal anesthetic. (Proceedings) 1919, **13**, 513.
- Loeline and Nicotine. Studies in tolerance, I. Edmunds. 1910, **1**, 27.
- Loevenhart, A. S. Action of tetramethyl ammonium chloride on the respiration and circulation. (Proceedings) 1913-14, **5**, 515.
- , Further observations on the action of iodoso- and iodoxybenzoic acids. (Proceedings) 1910-11, **2**, 403.
- , Stimulation of the respiration by sodium cyanide. (Proceedings) 1918, **11**, 185.
- , Amberg, S., and McClure, W. B. The influence of oxygen upon inflammatory reactions. 1917-18, **10**, 209.
- , and Arkin, A. On the pharmacological action and antiseptic value of certain benzoic acid derivatives. (Proceedings) 1910, **1**, 569.
- , and Brown, W. H. The effect of hematin on the circulation and respiration. (Proceedings) 1912-13, **4**, 347.
- , and Eyster, J. A. E. Apparatus for the perfusion of isolated organs especially the isolated mammalian heart. 1913-14, **5**, 57.
- , and Eyster, J. A. E. Effect of certain oxidizing substances and of acids and alkalies on the isolated mammalian heart. 1913-14, **5**, 21.
- , and Gasser, H. S. The mechanism of stimulation of the medullary centers by decreased oxidation. 1913-14, **5**, 239.
- , and Grove, W. E. On the pharmacological action of iod-, iodoso- and oxyiodosobenzoic acids. A preliminary note. 1910, **1**, 289.
- , and Grove, W. E. The action of hydrocyanic acid on the respiration and the antagonistic action of sodium iodosobenzoate. Grove and Loevenhart. 1911-12, **3**, 131.
- , and Grove, W. E. Studies on the pharmacological action of oxidizing substances. 1911-12, **3**, 101.
- , McClure, W. B., and Amberg, S. Further studies on mustard oil inflammation. (Proceedings) 1916, **8**, 134.
- , Malone, J. Y., and Martin, H. G. Studies on stimulation of the respiration: The action of respiratory stimulants upon the respiration when depressed by increased intracranial pressure with special reference to sodium cyanide 1922, **19**, 13

- Loevenhart, A. S., Martin, G. H., and Bunting, C. H. Morphological changes in the tissues of the rabbit as a result of reduced oxidations. (Proceedings) 1916, **8**, 112.
- , Schlomovitz, B. H. and Seybold, E. G. The determination of the circulation time in animals and man. (Proceedings) 1920, **15**, 246.
- , Schlomovitz, B. H., and Seybold, E. G. The determination of the circulation time in rabbits and dogs and its relation to the reaction time of the respiration to sodium cyanide. 1922, **19**, 221.
- , Seybold, E. G., and Schlomovitz, B. H. The determination of the circulation time in dogs and rabbits and its relation to the reaction time of the respiratory center to sodium cyanide. (Proceedings) 1921, **17**, 345.
- , Whelan, Julia and Leonard, C. S. The toxicological action of azulene. (Proceedings) 1921, **17**, 346.
- Longfellow, Elizabeth, and Mathews, A. P. The toxicity of martius yellow and some other aniline dyes and the entrance of dyes into cells. 1910-11, **2**, 201.
- Lucke, Baldwin, Kolmer, J. A., and McCouch, G. P. Influence of arsphenamine and neoarsphenamine on the epinephrine content of the adrenal glands. 1923, **20**, 153.
- Luckhardt, A. B., Koch, F. C., Schroeder, W. F., and Weiland, A. H. The physiological action of the fumes of iodine. 1920, **15**, 1.
- Lundholm, Arthur, Hirschfelder, A. D., and Norrgard, Henry. The local anesthetic action of saligenin and other phenyl carbinols. (Proceedings) 1920, **15**, 237.
- , Hirschfelder, A. D., and Norrgard, Henry. The local anesthetic actions of saligenin and other phenyl carbinols. 1920, **15**, 261.
- Lung, Microscopic study of the anaphylactic, of the guinea-pig and mouse. Physiological studies in anaphylaxis. III. Schultz and Jordan. 1910-11, **2**, 375.
- Lungs, Effects of various colloids and other agents which produce anaphylactoid phenomena on bronchi of perfused. Hanzlik and Karsner. 1920, **14**, 449.
- , Insufflation of the, with hydrogen, carbon dioxide and air. Guthrie. (Proceedings) 1910, **1**, 576.
- , Insufflation of the, with hydrogen; with carbon dioxide; and with air. Guthrie, Guthrie and Ryan. 1910-11, **2**, 49.
- , The absorption and excretion of ammonia by the. McGuigan. 1912-13, **4**, 453.
- , The effect on the respiration of altered vascular conditions in the. Dixon and Ransom. 1913-14, **5**, 539.
- , The peripheral action of certain drugs with special reference to the: Jackson, 1912-13, **4**, 291.
- , The vaso-motor supply of the. Wood. (Proceedings) 1910-11, **2**, 394.
- Lusk, Graham, and Chanutin, Alfred. Animal calorimetry. The influence of morphine upon heat production in the dog. 1922, **19**, 359.
- Lyman, Henry, and Folin, Otto. On the influence of phenylquinolin carbonic acid (atophan) on the uric acid elimination. 1912-13, **4**, 539.
- Lymph hearts, Distribution of solutions in cardiectomized frogs with destroyed or inactive. Githens and Meltzer. (Proceedings) 1914-15, **6**, 607.

- Lymph hearts in cardiectomized frogs, On the action of drugs and the function of the anterior. Abel. 1911-12, **3**, 581.
- hearts, Influence of the, upon the action of convulsant drugs in cardiectomized frogs. Abel and Turner. 1914-15, **6**, 91.
- hearts, On the convulsant action of acid fuchsin in cardiectomized frogs after removal of the anterior. Joseph. 1914-15, **6**, 83.
- , On the secretion of. Yanagawa. 1917, **9**, 75.
- Lynch, Vernon, Smith, H. W., and Marshall, E. K., Jr. On dichlorethylsulphide (mustard gas). I. The systemic effects and mechanism of action. 1919, **12**, 265.
- , Smith, H. W., and Marshall, E. K., Jr. On dichlorethylsulphide (mustard gas). II. Variations in susceptibility of the skin to dichlorethylsulphide. 1919, **12**, 291.
- Lyon, E. P. The effect of iodine upon the unfertilized and fertilized eggs of sea urchins. (Proceedings) 1918, **11**, 185.
- MacCallum, W. G., and Voegtlin, Carl. On the influence of various salts upon tetany following parathyroidectomy. 1910-11, **2**, 421.
- MacCracken, W. H., and Werness, I. A device for overcoming clotting during direct blood pressure experiments. 1917, **9**, 305.
- MacNider, W. de B. A preliminary paper on the relation between the amount of stainable lipoid material in the renal epithelium and the susceptibility of the kidney to the toxic effect of the general anesthetics. 1921, **17**, 289.
- , A study of acute mercuric chloride intoxication in the dog with special reference to the kidney injury. (Proceedings) 1918, **11**, 186.
- , A study of the action of various diuretics in uranium nephritis. 1911-12, **3**, 423.
- , A study of the action of various diuretics in uranium nephritis, with special reference to the part played by the anesthetic in determining the efficiency of the diuretic. 1912-13, **4**, 491.
- , A study of the anurias occurring in normal animals during the use of the general anesthetics. 1920, **15**, 249.
- , A study on the relative importance in the nephritic kidney of a responsive vascular mechanism, as compared with a functionally responsive epithelium in determining the efficiency of various diuretics. (Proceedings) 1914-15, **6**, 599.
- , Inhibition of the toxicity of anesthetics for the nephropathic kidney. (Proceedings) 1916, **8**, 116.
- , Naturally nephropathic animals. The ability of an alkaline solution to influence the amount of stainable lipoid material that appears in the kidney following the use of a general anesthetic. 1923, **20**, 365.
- , The action of diuretics in uranium nephritis. (Proceedings) 1911-12, **3**, 459.
- , The effect of acids and alkalis on renal function and pathology. (Proceedings) 1920, **15**, 234.
- , The effect of anesthetics on the output of urine in uranium nephritis. (Proceedings) 1912-13, **4**, 348.
- , The relative toxicity of uranium nitrate for animals of different ages. (Proceedings) 1917, **9**, 345.

- MacNider, W. de B. The vascular response of the kidney in acute uranum nephritis. The influence of the vascular response on diuresis. (Proceedings) 1913-14, **5**, 520.
- , The vascular response of the kidney in acute uranum nephritis. The influence of the vascular response on diuresis. 1914-15, **6**, 123.
- McCartney, Ethel. Agaricin. 1917-18, **10**, 83.
- McClure, W. B., Amberg, S., and Loevenhart, A. S. Further studies on mustard oil inflammation. (Proceedings) 1916, **8**, 134.
- , Amberg S., and Loevenhart, A. S. The influence of oxygen upon inflammatory reactions. 1917-18, **10**, 209.
- McCouch, G. P., Lucke, Baldwin, and Kolmer, J. A. Influence of arsphenamine and neoarsphenamine on the epinephrine content of the adrenal glands. 1923, **20**, 153.
- McGuigan, Hugh. Hypoglycemia. (Proceedings) 1914-15, **6**, 604.
- , Influence of atropine and pilocarpine on the glycogenic function. 1916, **8**, 407.
- , The absorption and excretion of ammonia by the lungs. 1912-13, **4**, 453.
- , The central action of curare. 1916, **8**, 471.
- , The effect of hemorrhage on the sympathetics. (Proceedings) 1921, **17**, 328.
- , and Becht, F. C. The site of the action of strychnine. 1913-14, **5**, 469.
- , and Hyatt, E. G. The primary depression and secondary rise in blood pressure caused by epinephrine. 1919, **12**, 59.
- , Keeton, R. W., and Sloan, L. H. The segmental action of strychnine. 1916, **8**, 143.
- , and Mostrom, H. T. Epinephrine. 1912-13, **4**, 277.
- , and Mostrom, H. T. Studies on the convulsive reflex produced by strychnine. I. Habit. 1911-12, **3**, 515.
- , and Mostrom, H. T. Studies on the convulsive reflex produced by strychnine. II. As modified by epinephrine. 1911-12, **3**, 521.
- , Rettig, F. A., and Hyatt, E. G. The action of chloral on the pupil. 1920, **15**, 415.
- , and Ross, E. L. The similarity and synergy of morphine and strychnine action. 1915, **7**, 385.
- , and Ryan, A. H. The site of action of strychnine in the spinal cord. 1910-11, **2**, 319.
- , and von Hess, C. L. Isocalycanthine and its quaternary base. 1911-12, **3**, 441.
- , and von Hess, C. L. The condition of the sugar in the blood. 1914-15, **6**, 45.
- McGuire, J. H., Martin, E. G., and Grace, C. M. The influence of drugs on the human sensory threshold. 1914-15, **6**, 527.
- McIntyre, M., Hanzlik, P. J. and Prescho, E. Experimental plumbism: therapeutic efficiency of some agents, and comparative toxicity of certain metals. (Proceedings) 1922, **19**, 248.
- McIver, M. A., and Sellards, A. W. The treatment of amoebic dysentery with chaparro armagosa (*Castela Nicholsoni* of the family Simarubaceae). 1918, **11**, 331.

- McLachlin, L. C., and Mann, F. C. The action of adrenaline in inhibiting the flow of pancreatic secretion. 1917-18, **10**, 251.
- McLean, F. C., and Koch, W. The relation of the phosphatides to Overton and Meyer's theory of narcosis. 1910-11, **2**, 249.
- McPeck, C., Brooks, C. and Seymour, R. J. The action of epinephrine on vasomotors and heart beats studied separately by the artificial control of blood pressure by means of the compensator. (Proceedings) 1918, **11**, 168.
- McQuarrie, I., and Hanson, S. The non-dependence of the protein quotient in the blood serum upon the rapidity of metabolism, with especial reference to the non-effect of antipyretics, sodium cacodylates and thyroid extract. 1917-18, **10**, 261.
- McWhorter, J. E., and Lieb, C. C. Action of drugs on the isolated gall-bladder. 1915, **7**, 83.
- Maal, P. H., and Storm van Leeuwen, W. The physiological standardization of extract of belladonna. 1921, **18**, 313.
- Macht, D. I. A pharmacodynamic analysis of Straub's morphine reaction. (Proceedings) 1920, **15**, 243.
- , A pharmacological and therapeutic study of benzyl alcohol as a local anesthetic. 1918, **11**, 263.
- , A pharmacological study of benzaldehyde. (Proceedings) 1919, **13**, 508.
- , A toxicological study of some alcohols, with especial reference to isomers. 1921, **16**, 1.
- , Action of drugs on the isolated pulmonary artery. 1914-15, **6**, 13.
- , Action of drugs on the ureter. (Proceedings) 1916, **8**, 111.
- , Action of the iodides on the heart and blood-vessels. (Proceedings) 1913-14, **5**, 514.
- , Action of opium alkaloids on the ducts of the testis. 1917, **9**, 121.
- , Action of the opium alkaloids, individually and in combination with each other, on the respiration. 1915, **7**, 339.
- , Contribution to the chemico-pharmacodynamic relationship of atropine and homatropine. (Proceedings) 1922, **19**, 251.
- , Demonstration by the use of arterial rings of the inhibitory action of certain drugs on the vaso-constriction produced by epinephrine. 1914-15, **6**, 591.
- , Further experiences, experimental and clinical, with benzyl benzoate and benzyl alcohol. (Proceedings) 1919, **13**, 509.
- , On the absorption of drugs and poisons through the vagina. 1917-18, **10**, 509.
- , On the absorption of local anesthetics through the genito-urinary organs. 1921, **16**, 435.
- , On the anthelmintic action of benzyl alcohol and benzyl esters. 1920, **14**, 323.
- , On the comparative effects of the opium alkaloids individually and in combination with each other on the gall bladder. 1917, **9**, 473.
- , On the convulsant action of some dyes. (Proceedings) 1911-12, **3**, 471.
- , On the convulsant action of some sulphonated dyes. 1911-12, **3**, 531.

- Macht, D. I. On the pharmacology of the ureter. I. Action of epinephrine, ergotoxin and of nicotine. 1916, **8**, 155.
- . On the pharmacology of the ureter. II. Action of drugs affecting the sacral autonemics. 1916, **8**, 261.
- . On the pharmacology of the ureter. III. Action of the opium alkaloids. 1917, **9**, 197.
- . On the pharmacology of the ureter. IV. Action of hydrastine, hydrastinine, cotarnine, emetine and some pyridine derivatives, with a further analysis of the opium action. 1917, **9**, 287.
- . On the pharmacology of the ureter. VI. Action of some optic isomers. 1919, **12**, 255.
- . On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. I. On the relation of the chemical structure of the opium alkaloids to their action on smooth muscle. 1918, **11**, 389.
- . On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. II. A pharmacological and therapeutic study of some benzyl esters. Macht. 1918, **11**, 419.
- . On the relation of the chemical structure of opium alkaloids to their action on smooth muscle structures. (Proceedings) 1918, **11**, 176.
- . The action of so-called emmenagogue oils on the isolated uterine strip. 1912-13, **4**, 547.
- . The action of some optic isomers on the ureter. (Proceedings) 1917, **9**, 351.
- , and Abel, J. J. Histamine and pituitary extract. 1920, **14**, 279.
- , and Abel, J. J. Two crystalline pharmacological agents obtained from the tropical toad, *Bufo agua*. 1911-12, **3**, 319.
- , and Bloom, W. A pharmacodynamic analysis of cocaine action on the cerebrum. (Proceedings) 1921, **17**, 331.
- , and Bloom, W. Effect of some antipyretics on the behavior of rats in the circular maze. 1921, **17**, 21.
- , and Bloom, W. On the comparative toxicity of alcohol, caffeine and nicotine. (Proceedings) 1921, **17**, 330.
- , and Colson, H. The toxicity of digitalis for normal and vagotomized cats. (Proceedings) 1917, **9**, 343.
- , and Fisher, H. G. On the toxic action of opium alkaloids individually and in combination with each other on paramacia. 1917-18, **10**, 95.
- , Greenberg, J., and Isaacs, S. The effect of some antipyretics on the acuity of hearing. 1920, **15**, 149.
- , Herman, N. B., and Levy, C. S. A quantitative study of the analgesia produced by opium alkaloids, individually and in combination with each other, in normal man. 1916, **8**, 1.
- , and Hooker, D. R. Concerning the action of the iodide, bromide and nitrate ions on the respiratory center. 1918, **11**, 63.
- , and Isaacs, S. The effect of morphine and opium on psychological reaction time. (Proceedings) 1917, **9**, 351.

- Macht, D. I., Johnson, S. L., and Bollinger, H.J. On the peripheral action of the opium alkaloids. Effect on the sensory nerve terminals. 1916, **8**, 451.
- , and Kubota, Seiko. Action of local anesthetics on striated muscle. (Proceedings) 1919, **13**, 507.
- , and Kubota, Seiko. Concerning the action of local anesthetics on striated muscle. 1919, **13**, 31.
- , and Mora, C. F. Effect of opium alkaloids on the behavior of rats in the circular maze. 1921, **16**, 219.
- , and Satani, Y. A study of local anesthetics in respect to their antiseptic properties. (Proceedings) 1920, **15**, 244.
- , and Shohl, A. T. The stability of benzyl alcohol solutions. 1921, **16**, 61.
- , and Ting, G. C. A study of antispasmodic drugs on the bronchus. 1921, **18**, 373.
- , and Ting, G. C. Experimental inquiry into the narcotic properties of some polyhydric alcohols. (Proceedings) 1922, **19**, 252.
- , and Ting, G. C. Experimental inquiry into the sedative properties of some aromatic drugs and fumes. 1921, **18**, 361.
- , and Ting, G. C. Response to drugs of excised bronchi from normal and diseased animals. 1921, **18**, 111.
- , and Voegtlin, Carl. The action of nitrites and drugs of the digitalis group on the isolated coronary artery. 1913-14, **5**, 77.
- Macy, I. G., and Mendel, L. B. Comparative studies on the physiological value and toxicity of cotton seed and some of its products. 1921, **16**, 345.
- Magnesium chloride, Anesthesia by the intracerebral injection of. Henderson. 1910, **1**, 199.
- salts, The action of, upon the mammalian heart. Matthews. (Proceedings) 1921, **17**, 339.
- salts, The life-saving action of physostigmine in poisoning by. Joseph and Meltzer. 1910, **1**, 369.
- sulphate, Fatal action of, by absorption from the intestines. Auer and Meltzer. (Proceedings) 1913-14, **5**, 524.
- sulphate in arsenic poisoning. Hansen. 1921, **17**, 105.
- sulphate, On the action of. Matthews and Brooks. 1910-11, **2**, 87.
- sulphate, The appearance of hyaline casts in the urine of dogs following the intra-intestinal injection of. Gates. (Proceedings) 1914-15, **6**, 610.
- sulphate, The application of a concentrated solution of, to scalds and burns. Meltzer. 1919, **12**, 211.
- sulphate, The favorable antagonistic effect of, against surely fatal doses of sodium oxalate. Gates and Meltzer. (Proceedings) 1917, **9**, 353.
- sulphate, The treatment of experimental tetanus in dogs by intravenous injection of tetanus antitoxin and. Auer and Meltzer. (Proceedings) 1919, **13**, 500.
- , The comparative toxicity of the chlorides of calcium, potassium, sodium and. Joseph and Meltzer. 1910, **1**, 1.
- Magnet, A signal magnet which writes either upwards or downwards. Hale. (Proceedings) 1917, **9**, 302.
- Malone, J. Y., Loevenhart, A. S., and Martin, H. G. Studies on stimulation of the respiration: The action of respiratory stimulants upon the respiration when depressed by increased intracranial pressure with special reference to sodium cyanide. 1922, **19**, 13.

- Mann, F. C., and McLachlin, L. C. The action of adrenaline in inhibiting the flow of pancreatic secretion. 1917-18, **10**, 251.
- Marine, D., and Feiss, H. O. The absorption of potassium iodide by perfused thyroid glands and some of the factors modifying it. 1915, **7**, 557.
- , and Rogoff, J. M. Absorption of potassium iodide by the thyroid gland in vivo, following its intravenous injection in constant amounts. 1916, **8**, 439.
- , and Rogoff, J. M. Attempts to produce a substance with thyroid-like activity by the artificial iodization of proteins. 1917-18, **10**, 321.
- , and Rogoff, J. M. Effects on tadpoles of feeding thyroid products obtained by alkaline hydrolysis. 1917, **9**, 57.
- , and Rogoff, J. M. How rapidly does the intact thyroid gland elaborate its specific iodine containing hormone? 1917, **9**, 1.
- Markel, C., and Gruber, C. M. Tonus waves from the sino-auricular muscle preparation of the terrapin as affected by adrenaline. 1919, **12**, 43.
- , and Gruber, C. M. II. Tonus waves in the terrapin auricles as affected by pilocarpine, atropine and adrenaline. 1919, **12**, 53.
- Marshall, C. R. The pharmacological action of coriamyrtin. 1912-13, **4**, 135.
- Marshall, E. K., Jr. The influence of diuresis on the elimination of urea, creatinine and chlorides. 1921, **16**, 141.
- , The toxicity of certain hirudin preparations. 1915, **7**, 157.
- , and Davis, D. M. Influence of adrenals on the kidneys. (Proceedings) 1916, **8**, 111.
- , and Davis, D. M. Influence of the adrenals on the kidneys. 1916, **8**, 525.
- , and Kolls, A. C. An apparatus for the administration of gases and vapors to animals. 1919, **12**, 385.
- , and Kolls, A. C. The effect of nicotine on the two kidneys after unilateral section of the splanchnic nerve. (Proceedings) 1917, **9**, 347*.
- , and Kolls, A. C. The effects of the section of the renal nerves on the secretion of the kidney. (Proceedings) 1917, **9**, 346.
- , and Kolls, A. C. The effects of unilateral excision of the adrenal section of the splanchnic nerve and section of the renal nerves on the secretion of the kidney. (Proceedings) 1917, **9**, 346.
- , and Kolls, A. C. The secretion of urine and action of diuretics as influenced by blood flow and reduction of renal substance. (Proceedings) 1919, **13**, 507.
- , Lamson, P. D., and Turner, B. B. Observations on plasmapheresis. 1915, **7**, 129.
- , Lynch, Vernon, and Smith, H. W. On dichlorethylsulphide (mustard gas). I. The systemic effects and mechanism of action. 1919, **12**, 265.
- , Lynch, Vernon, and Smith, H. W. On dichlorethylsulphide (mustard gas). II. Variations in susceptibility of the skin to dichlorethylsulphide. 1919, **12**, 291.
- , Smith, H. W., and Clowes, G. H. A. On dichlorethylsulphide (mustard gas) IV. The mechanism of absorption by the skin. 1919, **13**, 1.
- , and Williams, J. W. The toxicity and skin irritant effect of certain derivatives of dichloroethyl sulfide. 1921, **16**, 259.
- Marshall, J., and Welker, W. H. The antitoxic action of rattlesnake serum on rattlesnake venom with a note on the percentage of total solids of the serum and bile. 1915, **7**, 125.

- Marshall, J., and Welker, W. H. Toxicity of rattlesnake serum and bile with a note on the effect of bile on the toxicity of venom. 1914-15, **6**, 563.
- Martin, E. G., Grace, C. M., and McGuire, J. H. The influence of drugs on the human sensory threshold. 1914-15, **6**, 527.
- Martin, G. H., Bunting, C. H., and Loevenhart, A. S. Morphological changes in the tissues of the rabbit as a result of reduced oxidations. (Proceedings) 1916, **8**, 112.
- Martin, H. G., Loevenhart, A. S., and Malone, J. Y. Studies on stimulation of the respiration: The action of respiratory stimulants upon the respiration when depressed by increased intracranial pressure with special reference to sodium cyanide. 1922, **19**, 13.
- Martin, P. A., and Gunn, J. A. Intrapericardial medication and massage in the treatment of arrest of the heart. 1915, **7**, 31.
- Martius yellow and some other aniline dyes, The toxicity of, and the entrance of dyes into cells. Mathews and Longfellow. 1910-11, **2**, 201.
- Mason, E. C. The pharmacological action of organic lead compounds. (Proceedings) 1921, **17**, 340.
- Massage and intrapericardial medication in the treatment of arrest of the heart. Gunn and Martin. 1915, **7**, 1.
- Mathews, A. P. The action of ether on an anaerobic animal tissue. 1910-11, **2**, 231.
- , and Longfellow, Elizabeth. The toxicity of martius yellow and some other aniline dyes and the entrance of dyes into cells. 1910-11, **2**, 201.
- Mathews, S. A. The action of magnesium salts upon the mammalian heart. (Proceedings) 1921, **17**, 339.
- , and Brooks, Clyde. On the action of magnesium sulphate. 1910-11, **2**, 87.
- Mattill, P. M., Mayer, Katherine, and Sauer, L. W. The influence of intravenous injections of acacia-glucose solutions on urine excretion and blood volume in rabbits. 1921, **16**, 391.
- Maurer, L. L., and Barbour, H. G. Tyramine as a morphine antagonist. 1920, **15**, 305.
- , v. Glahn, W. C., and Barbour, H. G. Paraoxyphenylethylamine as a morphine antagonist (Preliminary communication). (Proceedings) 1916, **8**, 124.
- Maver, M. E., and Amberg, S. Citric acid as a constituent of normal human urine. (Proceedings) 1919, **13**, 507.
- , and Eyeter, J. A. E. An apparatus for the exposure of skin or mucous membrane to the vapor of toxic substances, with observations on dichlorethyl-sulphide. 1920, **15**, 95.
- Mayer, Katherine, Mattill, P. M., and Sauer, L. W. The influence of intravenous injections of acacia-glucose solutions on urine excretion and blood volume in rabbits. 1921, **16**, 391.
- Meakins, J., and Harington, C. R. The relation of histamine to intestinal intoxication. I. The presence of histamine in the human intestine. 1921, **18**, 455.
- , and Harington, C. R. The relation of histamine to intestinal intoxication. II. The absorption of histamine from the intestine. 1923, **20**, 45.

- Means, J. H., and Denis, W. The influence of salicylate on metabolism in man. 1916, **8**, 273.
- , and Grabfield, G. P. The effect of caffeine on the reaction to carbon dioxide of the normal human respiratory mechanism. 1917-18, **10**, 159.
- , and Higgins, H. L. The effect of certain drugs on the respiration and gaseous metabolism in normal human subjects. 1915, **7**, 1.
- , and Hoskins, R. G. The relation of vascular conditions to pituitrin diuresis. 1912-13, **4**, 435.
- , and Newburgh, L. H. The bloodflow in a patient with double aortic and double mitral disease. 1915, **7**, 441.
- , and Newburgh, L. H. The effect of caffeine upon the bloodflow in normal human subjects. 1915, **7**, 449.
- Medulla of the turtle, Drug perfusion of the. II. Aconitine, morphine, cocaine, quinine. Bush. 1920, **15**, 173.
- of the turtle, Perfusion of the. III. Epinephrine. Bush. 1920, **15**, 297.
- of the turtle, Perfusion of the, with caffeine, strychnine and atropine. Bush. 1920, **14**, 313.
- , Perfusion of the mammalian, Note on the action of ethyl alcohol. Hooker. 1917-18, **10**, 121.
- , Perfusion of the, of the terrapin (*Pseudomys troosti*) with adrenaline. Heinekamp. 1922, **19**, 131.
- , The action of potassium salts on the, as shown by perfusion of the medulla of the terrapin (*Pseudomys troosti*) with potassium salts. Heinekamp. 1922, **19**, 239.
- Medullary centers, Effect of epinephrine on the. Brown. 1916, **8**, 195.
- centers, Mechanism of stimulation of the, by decreased oxidation. Gasser and Loevenhart. 1913-14, **5**, 239.
- centers, On the action of veratrum viride with some remarks on the inter-relationship of the. Cramer. 1915, **7**, 63.
- centers, On the stimulation of the vago-gastric, by drugs. Rogers. (Proceedings) 1918, **11**, 171.
- Meek, W. J., and Eyster, J. A. E. The action of certain drugs on the electrocardiogram. (Proceedings) 1912-13, **4**, 343.
- , and Eyster, J. A. E. The electrocardiogram in morphine poisoning in the dog. (Proceedings) 1911-12, **3**, 468.
- Melanophores, Responses to sympathetic and parasympathetic stimulants and depressants of fish. Barbour and Spaeth. (Proceedings) 1917, **9**, 356.
- Meltzer, S. J. Neurologue J. J. A. 1921, **17**, 168.
- ; The application of a concentrated solution of magnesium sulphate to scalds and burns. 1919, **12**, 211.
- , and Auer, J. Effect of ether inhalation upon the skeletal motor mechanism. (Proceedings) 1913-14, **5**, 521.
- , and Auer, J. Fatal action of magnesium sulphate by absorption from the intestines. (Proceedings) 1913-14, **5**, 524.
- , and Auer, J. On intramuscular absorption. (Proceedings) 1910-11, **2**, 402.
- , and Auer, J. On the duration of constriction of blood vessels by epinephrine. 1921, **17**, 177.

- Meltzer, S. J., and Auer, J. Prolonged constriction of the bloodvessels by subcutaneous injection of adrenaline into the ear of rabbit. (Proceedings) 1917, **9**, 358.
- , and Auer, J. The effect of epinephrine and pituitrin upon the bloodvessels when injected subcutaneously in the ear of a rabbit. (Proceedings) 1919, **13**, 511.
- , and Auer, J. The influence of pituitrin upon the depressor action of the vagus nerve in the cat. (Proceedings) 1912-13, **4**, 359.
- , and Auer, J. The treatment of experimental tetanus in dogs by intravenous injection of tetanus antitoxin and magnesium sulphate. (Proceedings) 1919, **13**, 506.
- , and Gates, F. L. The favorable antagonistic effect of magnesium sulphate against surely fatal doses of sodium oxalate. (Proceedings) 1917, **9**, 353.
- , and Githens, T. S. Differences in the toxic effects of ether and chloroform, as observed under intratracheal insufflation. (Proceedings) 1912-13, **4**, 355.
- , and Githens, T. S. Distribution of solutions in cardiectomized frogs with destroyed or inactive lymph hearts. (Proceedings) 1914-15, **6**, 607.
- , and Githens, T. S. Is the dilatation of the pupil following gangliectomy due to vaso-dilatation? (Proceedings) 1916, **8**, 133.
- , and Githens, T. S. On the duration of irritability of the motor nerves of the frog after death and the effect of strychnine upon it. (Proceedings) 1911-12, **3**, 463.
- , and Githens, T. S. The control of strychnine poisoning by means of intratracheal insufflation and ether. 1910-11, **2**, 357.
- , and Githens, T. S. The control of strychnine poisoning by means of insufflation and ether. (Proceedings) 1910-11, **2**, 404.
- , and Githens, T. S. The influence of pituitrin and of adrenaline on the pupil of normal and ganglionectomized rabbits. (Proceedings) 1917, **9**, 360.
- , and Githens, T. S. The irritability of motor nerves in chloroform anesthesia. (Proceedings) 1913-14, **5**, 523.
- , and Githens, T. S. The nature of the cessation of respiration in deep ether anesthesia. (Proceedings) 1913-14, **5**, 523.
- , and Joseph, D. R. On a difference between the effects of intravenous and intra-aortic injections of curarin in frogs. (Proceedings) 1911-12, **3**, 465.
- , and Joseph, D. R. On the convulsant action of acid fuchsin upon frogs deprived of their cardiac circulation. 1912, **3**, 183.
- , and Joseph, D. R. Some observations on the physiological action of sodium chloride. 1910-11, **2**, 271.
- , and Joseph, D. R. The comparative toxicity of the chlorides of magnesium, calcium, potassium and sodium. 1910, **1**, 1.
- , and Joseph, D. R. The inhibitory action of sodium chloride upon the phenomena following the removal of the parathyroids in dogs. A preliminary communication. 1911, **2**, 361.
- , and Joseph, D. R. The inhibitory action of sodium chloride upon the phenomena following the removal of the parathyroids in dogs. (Proceedings) 1910-11, **2**, 404.
- , and Joseph, D. R. The life-saving action of physostigmine in poisoning by magnesium salts. 1910, **1**, 369.

- Mendel, L. B., and Kahn, R. L. The physiological action of some methylated purines. (Proceedings) 1912-13, **4**, 343.
- , and Kleiner, I. S. The reduction of the toxicity of strychnine by the simultaneous administration of large quantities of indifferent fluids. (Proceedings) 1917, **9**, 359.
- , and Macy, I. G. Comparative studies on the physiological value and toxicity of cotton seed and some of its products. 1921, **16**, 345.
- , and Osborne, T. B. Stability of the growth-promoting substance in butter fat. (Proceedings) 1916, **8**, 109.
- , and Osborne, T. B. The growth of chickens under laboratory conditions. (Proceedings) 1918, **11**, 170.
- , Underhill, F. P., and Renshaw, R. R. The action of salts of choline on arterial blood pressure. 1911-12, **3**, 649.
- , Underhill, F. P., and Renshaw, R. R. The physiological action of salts of choline. (Proceedings) 1911-12, **3**, 457.
- Mendenhall, W. L. Effect of tobacco smoking on human sensory thresholds. (Proceedings) 1921, **17**, 333.
- , Stingel, J. L., and Sollmann, Torald. Influence of temperature and concentration on the quantitative reaction of the heart to ouabain. 1914-15, **6**, 533.
- Meninges, A method for the study of the permeability of, for arsenicals. Smith and Voegtlin. (Proceedings) 1921, **17**, 342.
- Menten, M. L., and Crile, G. W. Comparison of anesthesia, in plants possessing a motor mechanism and in animals. (Proceedings) 1911-12, **3**, 467.
- Mercurial compounds, On the drugfastness of spirochaetae in vitro against certain arsenical, iodide and. Noguchi and Akatsu. (Proceedings) 1917, **9**, 363.
- Mercuric chloride intoxication in the dog, with special reference to the kidney injury. MacNider. (Proceedings) 1918, **11**, 186.
- Mercury derivatives of saligenin: Further studies on saligenin and allied compounds. Hirschfelder, Hart and Kucera. (Proceedings) 1921, **17**, 325.
- fulminate, Pharmacological action of. Livingston. (Proceedings) 1919, **13**, 507.
- , Further studies on the action of. Salant and Kleitman. (Proceedings) 1922, **19**, 253.
- , Some observations on the action of. Salant and Kleitman. 1922, **19**, 315.
- Mesentery, Quinine and atophan in inflammation of frog's. Ikeda. 1916, **8**, 101.
- , The effect of drugs on inflammation of the frog's. Ikeda. 1916, **8**, 137.
- Metabolism in chloroform poisoning. Underhill and Kapsinow. (Proceedings) 1922, **19**, 262.
- in man, Effect of alcohol on the respiration and the gaseous. Higgins. 1917, **9**, 441.
- in man, Influence of salicylate on. Denis and Means. 1916, **8**, 273.
- , Observations on the action of cinchophen in human subjects with normal nucleic acid. Grabfield and Pratt. (Proceedings) 1922, **19**, 259.
- , The effect of certain drugs on the respiration and gaseous, in normal human beings. Higgins and Means. 1915, **7**, 1.
- , The non-dependence of the protein quotient in the blood-serum upon the rapidity of, with especial reference to the non-effect of antipyretics, sodium cacodylate and thyroid extract. Hanson and McQuarrie. 1917-18, **10**, 261.

- Metabolites, The relation of brain phosphatides to tissue. Koch and Williams. 1910-11, **2**, 253.
- Metals, Experimental plumbism: therapeutic efficiency of some agents, and comparative toxicity of certain. Hanzlik, McIntyre and Presho. (Proceedings) 1922, **19**, 248.
- , Further observations on the action of heavy. Salant and Kleitman. (Proceedings) 1921, **17**, 332.
- , The influence of heavy, on the isolated frog heart. Salant and Connet. 1920, **15**, 217.
- , The influence of heavy, on the isolated heart. Salant and Connet. (Proceedings) 1920, **15**, 245.
- , The mechanism of the toxic action of the heavy, on the isolated heart. Voegtlin. (Proceedings) 1914-15, **6**, 602.
- Methyl salicylate, The excretion of salicyl after the administration of, to animals. The salicylates. XII. Hanzlik and Wetzel. 1920, **14**, 43.
- Methylated purines, The physiological action of some. Mendel and Kahn. (Proceedings) 1912-13, **4**, 343.
- N-Methylhistamine, The physiological action of, and of tetrahydropyrido-3. 4-iminazole ("Imidazolisopiperidin" of Fränkel). Dale and Dudley. 1921, **18**, 103.
- p-Methylphenyleinchroninic acid, Studies on the influence of phenyleinchroninic acid and the ethyl ester of, on renal excretion. Myers and Killian. 1921, **18**, 213.
- Meyer, A. L. The inhibitory effect of stimulation of the central end of the vagus nerve upon the contractions of an active expiratory muscle in the chicken. (Proceedings) 1917, **9**, 362.
- Meyers, H. B., and Ferguson, Charles. Systemic interaction of iodine and thiosulphate. (Proceedings) 1921, **17**, 347.
- Miles, W. R. The comparative concentrations of alcohol in human blood and urine at intervals after ingestion. 1923, **20**, 265.
- Miller, D. W., Dyer, H. A., and Voegthlin, Carl. Quantitative studies in chemotherapy. VII. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. 1923, **20**, 129.
- , Voegtlin, Carl, and Dyer, H. A. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. (Proceedings) 1922, **19**, 258.
- Mills, C. A. Cocaine intoxication in the rabbit. 1920, **14**, 355.
- , Raup, Gerard, and Jackson, D. E. The relation between the blood coagulating and smooth muscle contracting properties of tissue extracts. (Proceedings) 1921, **17**, 341.
- Mines, G. R. On the action of muscarine on the electrical response of the heart. 1913-14, **5**, 425.
- Mitchell, C. W., Salant, W., and Schwartze, E. W. The action of succinate and its derivatives on the isolated intestine. 1917, **9**, 511.
- Moise, M. D., and Barbour, H. G. The mechanism of cocaine fever. (Proceedings) 1922, **19**, 270.
- Moore, A. R. The action of strychnine on certain invertebrates. 1917, **9**, 167.
- Moore, Benjamin. The chemical and pharmacological properties of hederin, a sapo-glucoside contained in the leaves of common ivy (*hedera helix*). 1912-13, **4**, 263.

- Moore, H. F., and Chesney, A. M. A study of ethylhydrocuprein (optochin) in lobar pneumonia. (Proceedings) 1917, **9**, 364.
- Moorhead, L. D. Contributions to the physiology of the stomach. XXVIII. Further studies on the action of bitter tonics on the secretion of gastric juice. 1915, **7**, 577.
- Mora, C. F., and Macht, D. I. Effect of opium alkaloids on the behavior of rats in the circular maze. 1921, **16**, 219.
- Morgulis, Sergius, and Levine, V. E. A simplified method for the estimation of morphine, together with data on the distribution of the alkaloid in acute poisoning. (Proceedings) 1920, **15**, 240.
- Morphine, A preliminary note on the colorimetric estimation of. Corper and Gauss. (Proceedings) 1921, **17**, 343.
- , A simplified method for the estimation of, together with data on the distribution of the alkaloid in acute poisoning. Morgulis and Levine. (Proceedings) 1920, **15**, 240.
- , aconitine, cocaine, quinine. Drug perfusion of the medulla of the turtle. II. Bush. 1920, **15**, 173.
- , action, The similarity and synergy of strychnine and. McGuigan and Ross. 1915, **7**, 385.
- , Altered susceptibility to codeine, heroine, cannabis-indica and chloralhydrate in dogs having an acquired tolerance for. Cross tolerance. Myers. 1916, **8**, 417.
- and scopolamine action upon the intact uterus. Barbour. 1915, **7**, 547.
- antagonist, Paraoxyphenylethylamine as a. Barbour, Maurer and v. Glahn. (Proceedings) 1916, **8**, 124.
- antagonist, Tyramine as a. Barbour and Maurer. 1920, **15**, 305.
- , Comparative effects of alkaloids of the benzyloquinoline group and, on cardiac muscle. Hanzlik. 1921, **17**, 445.
- poisoning in the dog, The electrocardiogram in. Eyster and Meek. (Proceedings) 1911-12, **3**, 468.
- reaction, A pharmacodynamic analysis of Straub's. Macht. (Proceedings) 1920, **15**, 243.
- -scopolamine narcosis. Storm van Leeuwen and von Szent-Györgyi. 1921, **18**, 449.
- tetanus in frogs, The influence of decerebration upon. Githens. (Proceedings) 1912-13, **4**, 356.
- , The action of drugs on the output of epinephrine from the adrenals. VIII. Stewart and Rogoff. 1922, **19**, 59.
- , The action of, on the vomiting center in the dog. Leake. 1923, **20**, 359.
- , The effect of, upon the alkali reserve of the blood of dogs gassed with fatal concentrations of chlorine. Hjort and Taylor. 1919, **13**, 407.
- , The effect of, upon the alkali reserve of the blood of man and certain animals. Gauss. 1921, **16**, 475.
- , The effect of opium and, on psychological reaction time. Macht and Isaacs. (Proceedings) 1917, **9**, 351.
- , The influence of, in experimental septicemia. The action of drugs in infection. I. Kraft and Leitch. 1921, **17**, 377.

- Morphine, The influence of, on normal cats and on cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and respiratory frequency and blood sugar content. Stewart and Rogoff. 1922, **19**, 97.
- , The influence of, upon heat production in the dog. Animal calorimetry. Chanutin and Lusk. 1922, **19**, 359.
- , The influence of, upon the fatality of chlorine poisoning. Drugs after chlorine poisoning. I. Barbour, Hjort and Taylor. 1920, **14**, 55.
- , The mechanism of the Straub biologic test for. Heinekamp. 1923, **20**, 107.
- , The modification of the action of adrenaline by. The action of adrenaline on the heart. II. Heinekamp. 1920, **14**, 327.
- , The response of the surviving uterus to scopolamine and. Barbour and Copenhaver. 1915, **7**, 529.
- , The synergism of, and the scopolamines. Smith. 1915, **7**, 407.
- , Two types of periodic respiration due to. Barbour. 1913-14, **5**, 393.
- , Two types of periodic respiration produced by. Barbour. (Proceedings) 1913-14, **5**, 525.
- Morris, R. E., and White, S. M. Studies with American grown digitalis and digitalis lutea. (Proceedings) 1918, **11**, 184.
- Morrison, H., and Pratt, J. H. Tests of the pharmacological activity of American grown digitalis. (Proceedings) 1917, **9**, 341.
- Mostrom, H. T., and Koch, W. The function of the brain phosphatides in the physiological action of strychnine. 1910-11, **2**, 265.
- , and McGuigan, Hugh. Epinephrine. 1912-13, **4**, 277.
- , and McGuigan, H. Studies on the convulsive reflex produced by strychnine. I. Habit. 1911-12, **3**, 515.
- , and McGuigan, H. Studies on the convulsive reflex produced by strychnine. II. As modified by epinephrine. 1911-12, **3**, 521.
- Motor mechanism, The effect of ether inhalation upon the skeletal. Auer and Melzer. (Proceedings) 1913-14, **5**, 521.
- nerve fibers, Paralysis of. Direct application to the sciatic nerve of the frog. Comparative activity of local anesthetics. I. Sollmann. 1917-18, **10**, 379.
- nerves in chloroform anesthesia, The irritability of. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
- nerves of the frog after death, On the duration of irritability of the, and the effect of strychnine upon it. Githens and Meltzer. (Proceedings) 1911-12, **3**, 463.
- Mucous membrane, An apparatus for the exposure of skin or, to the vapor of toxic substances, with observations on dichlorethylsulphide. Eyster and Maver. 1920, **15**, 95.
- membranes, Benzyl alcohol: its anesthetic efficiency for. Sollmann. 1919, **13**, 355.
- membranes, Difficultly soluble anesthetics on. Comparative activity of local anesthetics. VI. Sollmann. 1919, **13**, 429.
- Muirhead, A. L., and Gerald, H. F. The action of certain volatile oils on isolated intestinal segments. 1916, **8**, 253.
- Muller, J. H., Hammett, F. S., and Nowrey, J. E., Jr. The relative toxicity of germanium and arsenic for the albino rat. 1922, **19**, 337.

- Munch, J. C., and Schwartz, E. W. Studies in the toxicity of aliphatic alcohols. (Proceedings) 1922, **19**, 252.
- Muscarine, Action of certain esters and ethers of choline, and their relation to Dale. 1914-15, **6**, 147.
- , The action of, on the electrical response of the heart. Mines. 1913-14, **5**, 425.
- Muscle, Action of local anesthetics on striated. Macht and Kubota. (Proceedings) 1919, **13**, 507.
- , Comparative effects of morphine and alkaloids of the benzylisoquinoline group on cardiac. Hanzlik. 1921, **17**, 445.
- , Concerning the action of local anesthetics on striated. Kubota and Macht. 1919, **13**, 31.
- , Contracting properties of tissue extracts, The relation between the blood coagulating and smooth. Mills, Raap and Jackson. (Proceedings) 1921, **17**, 341.
- , Does atropine alter the effects of digitalis upon the heart. Hirschfelder. (Proceedings) 1918, **11**, 177.
- , On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth, with a pharmacological and therapeutic study of some benzyl esters. I. On the relation of the chemical structure of the opium alkaloids to their action on smooth muscle. Macht. 1918, **11**, 389.
- , On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth, with a pharmacological and therapeutic study of some benzyl esters. II. A pharmacological and therapeutic study of some benzyl esters. Macht. 1918, **11**, 419.
- , On the relation between tonus and smooth, in the terrapin heart. Snyder and Andrus. 1920, **14**, 1.
- , preparation, Tonus waves from the sino-auricular, of the terrapin as affected by adrenaline. I. Gruber and Markel. 1919, **12**, 43.
- , Reaction of smooth, from guinea-pigs rendered tolerant to large doses of serum. Physiological studies in anaphylaxis. II. Schultz. 1910-11, **2**, 221.
- , strips, An improved lever for frog's heart and. Ryan. (Proceedings) 1917, **9**, 362.
- , structures, On the relation of the chemical structure of opium alkaloids to their action on smooth. Macht. (Proceedings) 1918, **11**, 176.
- , The action of acetanilide on isolated cardiac. Carr. (Proceedings) 1910-11, **2**, 399.
- , The action of the bromides on smooth. The rôle of the bromide salts on rhythmically contracting organs. II. Kruse. 1920, **14**, 149.
- , The anaphylactic reaction of plain, in the guinea-pig. Dale. 1912-13, **4**, 167.
- , The effect of varying tonicity on the anaphylactic and other reactions of plain. Dale. 1912-13, **4**, 517.
- , The effects of chelidonium on smooth. Hanzlik. 1915, **7**, 99.
- , The influence of physostigmine upon the sphincter, of the iris. Joseph. (Proceedings) 1917, **9**, 357.
- , The influence of veratrine and epinephrine on skeletal. Kruse. (Proceedings) 1922, **19**, 266.

- Muscle, The inhibitory effect of stimulation of the central end of the vagus nerve upon the contractions of active expiratory, in the chicken. Meyer. (Proceedings) 1917, **9**, 362.
- , The mutually antagonistic actions of adrenaline and physostigmine upon the sphincter, of the iris. Joseph. (Proceedings) 1917, **9**, 358.
- , The reaction of smooth, of the guinea-pig sensitized with horse serum. Physiological studies in anaphylaxis. I. Schultz. 1910, **1**, 549.
- Muscles, The effect, especially with regard to rigor, of the digitalis group including anaphylaxis upon some skeletal. Auer. (Proceedings) 1911-12, **3**, 464.
- Muscular exercise, The influence of, on normal cats compared with cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and respiratory frequency. Stewart and Rogoff. 1922, **19**, 87.
- movements of the intestine, The effect of carminative volatile oils on the. Plant. 1921, **16**, 311.
- work in frogs, A comparison of the action of certain drugs upon. Scarborough. 1921, **17**, 129.
- Mustard gas (dichloroethylsulphide), On the penetration of, into marine organisms, and the mechanism of its destructive action on protoplasm. Lillie, Clowes and Chambers. 1920, **14**, 75.
- gas (dichlorethylsulphide). III. Solubility and hydrolysis of dichlorethylsulphide. With a new method for estimating small amounts of the same. Hopkins. 1919, **12**, 393.
- gas (dichlorethylsulphide). I. The influence of solvents, adsorbents and chemical antidotes on the severity of the human skin lesions. Sollmann. 1919, **12**, 303.
- gas (dichlorethylsulphide). IV. The mechanism of absorption by the skin. Smith, Clowes and Marshall. 1919, **13**, 1.
- gas (dichlorethylsulphide), The minimum concentration of, effective for the eyes of man. Reed. 1920, **15**, 77.
- gas (dichlorethylsulphide). II. The question of induced hypersusceptibility of the skin. Sollmann. 1919, **12**, 319.
- gas (dichlorethylsulphide) The comparative skin irritant properties of, and other agents. Hanzlik and Tarr. 1920, **14**, 221.
- gas (dichlorethylsulphide). I. The systemic effects and mechanism of action. Lynch, Smith and Marshall. 1919, **12**, 265.
- gas (dichlorethylsulphide). II. Variations in susceptibility of the skin to dichlorethylsulphide. Marshall, Lynch and Smith. 1919, **12**, 291.
- gas, Penetration of, into protoplasm and its mode of action. Lillie, Chambers and Clowes. (Proceedings) 1919, **13**, 505.
- oil, Cutaneous irritation by, as influenced by various solvents. Sollmann. 1918, **11**, 229.
- oil inflammation, Further studies on. Amberg, Loevenhart and McClure. (Proceedings) 1916, **8**, 134.
- seed, An explanation of the laxative action of white. van Leersum. 1916, **8**, 285.
- Muto, Kiechiro. On the poisonous action of "asetake." 1918, **11**, 147.

- Myers, C. N., and Voegtlin, Carl. A comparison of the influence of secretin and the antineuritic vitamine on pancreatic secretion and bile flow. 1919, **13**, 301.
- Myers, H. B. Crossed tolerance. (Proceedings) 1914-15, **6**, 601.
- , Cross tolerance. Altered susceptibility to codeine, heroine, cannabis-indica and chloral-hydrate in dogs having an acquired tolerance for morphine. 1916, **8**, 417.
- , Cross tolerance; renal response to caffeine and theobromine in rabbits tolerant toward caffeine. (Proceedings) 1918, **11**, 177.
- , and Wallace, G. B. Uranium glycosuria. (Proceedings) 1913-14, **5**, 511.
- , and Wallace, G. B. Vascular reactions in poisoning with diphtheria toxin. (Proceedings) 1914-15, **6**, 601.
- Myers, V. C., and Killian, J. A. Studies on the influence of phenyleinchoninic acid and the ethyl ester of paramethylphenyleinchoninic acid on renal excretion. 1921, **18**, 213.
- Nagana, On the behavior of certain arsenical, antimony and other compounds in the treatment of experimental. Abel and Rowntree. (Proceedings) 1910, **1**, 577.
- Nagayama, T. On histamine and a histamine-like substance as decomposition products of albumoses. 1920, **15**, 401.
- , and Abel, J. J. On the presence of histamine in extracts of the posterior lobe of the pituitary gland and on preliminary experiments with the pressor constituent. 1920, **15**, 347.
- , and Lamson, P. D. Blood volume and blood volume methods. 1920, **15**, 331.
- Narcosis, On scopolamine-morphine. Storm van Leeuwen and von Szent Györgyi. 1921, **18**, 449.
- , The relation of the phosphatides to Overton and Meyer's theory of. Koch and McLean. 1910-11, **2**, 249.
- Narcotic properties, Experimental inquiry into the, of some polyhydric alcohols. Macht and Ting. (Proceedings) 1922, **19**, 252.
- Nelson, E. E. The physiological assay of pituitary extracts. (Proceedings) 1922, **19**, 270.
- Neoarsphenamine, and para-oxy-meta-amino-phenyl-arsenoxide, The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of arsphenamine and. Quantitative pathological studies with arsenic compounds. Hooper, Kolls and Wright. 1921, **18**, 133.
- , Influence of arsphenamine and, on the epinephrine content of the adrenal glands. Lucke, Kolmer and McCouch. 1923, **20**, 153.
- , The relative therapeutic value of arsphenamine and, of different manufacture. Quantitative studies in chemotherapy. IV. Voegtlin and Smith. 1921, **16**, 449.
- Neosalvarsan, The toxicity of salvarsan and. Pearce and Brown. (Proceedings) 1917, **9**, 354.
- Nephritic kidney, A study of the relative importance in the, of a responsive vascular mechanism, as compared with a functionally responsive epithelium in determining the efficiency of various diuretics. MacNider. (Proceedings) 1914-15, **6**, 599.

- Nephritides, Studies of renal function in experimental. (Proceedings) 1911-12, **3**, 460.
- Nephritis, A study of the action of various diuretics in uranium. MacNider. 1911-12, **3**, 423.
- , A study of the action of various diuretics in uranium, with special reference to the part played by the anesthetic in determining the efficiency of the diuretic. MacNider. 1912-13, **4**, 491.
- , The action of diuretics in uranium. MacNider. (Proceedings) 1911-12, **3**, 459.
- , The effect of anesthetics on the output of urine in uranium. MacNider. (Proceedings) 1912-13, **4**, 348.
- , The protective action of diet against tartrate. Salant and Swanson. 1918, **11**, 43.
- , The vascular reactions in experimental acute tartrate. Karsner. 1917, **9**, 483.
- , The vascular response of the kidney in acute uranium,—the influence of the vascular response on diuresis. MacNider. 1914-15, **6**, 123.
- , The vascular response of the kidney in acute uranium. The influence of the vascular response on diuresis. MacNider. (Proceedings) 1913-14, **5**, 520.
- Nephropathic animals, Naturally. The ability of an alkaline solution to influence the amount of stainable lipid material that appears in the kidney following the use of a general anesthetic. MacNider. 1923, **20**, 365.
- kidney, The inhibition of the toxicity of anesthetics for the. MacNider. (Proceedings) 1916, **8**, 116.
- Nerve fiber, The effect of cocaine hydrochloride on the CO₂ production of the mixed. Niwa. 1919, **12**, 323.
- fibers, Paralysis of motor. Direct application to the sciatic nerve of the frog. Comparative activity of local anesthetics. I. Sollmann. 1917-18, **10**, 379.
- fibers, Paralysis of sensory. Comparative activity of local anesthetics. II. Sollmann. 1918, **11**, 1.
- terminals, On the peripheral action of the opium alkaloids. Effect on the sensory. Macht, Johnson and Bollinger. 1916, **8**, 451.
- Nerves in chelonians, The distribution and function of certain. Jackson and Pelz. (Proceedings) 1918, **11**, 169.
- Nervous system, Functional evidence of the phylogeny of the, as shown by the behavior and resistance of the developing rat to strychnine. Schwartze. 1922, **19**, 273.
- Neuromuscular mechanisms, A study of the action of cocaine on the splanchnic cervical sympathetic. Tatum. 1921, **16**, 109.
- Neuron, The relation of the phosphatides to the sodium and potassium of the. Koch and Pike. 1910-11, **2**, 245.
- Newburgh, L. H., Henderson, L. J., and Palmer, W. W. The swelling of colloids and hydrogen ion concentration. 1913-14, **5**, 449.
- , and Means, J. H. The bloodflow in a patient with double aortic and double mitral disease. 1915, **7**, 441.
- , and Means, J. H. The effect of caffeine upon the bloodflow in normal human subjects. 1915, **7**, 449.

- Nicotine: A note on the effect of, on adrenal secretion. Cannon, Aub and Binger. 1911-12, **3**, 379.
- , Action of epinephrine, ergotoxin and of. On the pharmacology of the ureter. I. Macht. 1916, **8**, 155.
- and lobeline. Studies in tolerance. I. Edmunds. 1910, **1**, 27.
- , Effect on the two kidneys after unilateral section of the splanchnic nerve. Kolls and Marshall. (Proceedings) 1917, **9**, 347.
- , On the comparative toxicity of alcohol, caffeine and. Macht and Bloom. (Proceedings) 1921, **17**, 330.
- , Studies upon the long-continued administration of adrenaline and. Adler and Alsberg. (Proceedings) 1912-13, **4**, 353.
- , The action of drugs on the output of epinephrine from the adrenals. III. Stewart and Rogoff. 1919, **13**, 183.
- , The action of. Studies on the vasomotor centre. VIII. Pilcher and Sollmann. 1914-15, **6**, 369.
- , The vasomotor reaction to, locus of stimulation. Hoskins and Ranson. 1915, **7**, 375.
- tolerance, Further studies in. Edmunds and Smith. (Proceedings) 1916, **8**, 131.
- Nitrate ions, Concerning the action of the iodide, bromide and, on the respiratory center. Macht and Hooker. 1918, **11**, 63.
- Nitrite group, Effects of the. Pilcher and Sollmann. 1914-15, **6**, 323.
- Nitrites, The action of drugs of the digitalis group and, on the isolated coronary artery. Voegtlin and Macht. 1913-14, **5**, 77.
- Nitrogen atoms, Some examples of the effect of asymmetric, on physiological activity. Laidlaw. 1912-13, **4**, 461.
- Nitrous oxide sleep compared with normal sleep—brain cell studies. Crile and Austin. (Proceedings) 1912-13, **4**, 351.
- Niwa, Shuichi. The effect of cocaine hydrochloride on the CO₂ production of the mixed nerve fiber. 1919, **12**, 323.
- Noguchi, H., and Akatsu, S. On the drugfastness of spirochaetae against certain arsenical, mercurial and iodide compounds in vitro. (Proceedings) 1917, **9**, 363.
- , and Bronfenbrenner, J. On the resistance of various spirochaetes in cultures to the action of chemical and physical agents. 1912-13, **4**, 333.
- Norrsgard, Henry, Hirschfelder, A. D., and Lundholm, Arthur. The local anesthetic action of saligenin and other phenyl carbinols. (Proceedings) 1920, **15**, 237.
- , Hirschfelder, A. D., and Lundholm, Arthur. The local anesthetic actions of saligenin and other phenyl carbinols. 1920, **15**, 261.
- Novatophan, The effect of atophan and, on the endogenous uric acid excretion of normal men. Haskins. 1912-13, **5**, 63.
- Novocaine, A contribution to the pharmacology of. Hatcher and Eggleston. 1916, **8**, 385.
- , alpine, eucaine, holocaine and stovaine on the bladder. Waddell. 1917-18, **10**, 243.
- , Pharmacological studies with cocaine and. Roth. (Proceedings) 1917, **9**, 352.

- Nowrey, J. E., Jr., and Hammett, F. S. Changes with advancing age in the resistance of the albino rat to arsenic. 1922, **19**, 331.
- , Hammett, F. S., and Muller, J. H. The relative toxicity of germanium and arsenic for the albino rat. 1922, **19**, 337.
- Nucleic acid metabolism, Observations on the action of cinchophen in human subjects with normal. Grabfield and Pratt. (Proceedings) 1922, **19**, 259.
- Nucleotide, Adenine mono-. Jones and Kennedy. 1919, **13**, 45.
- , Adenine mono-. Jones and Kennedy. 1919, **12**, 253.
- , The application of the Kjeldahl method to compounds of brucine, with reference to the brucine salt of a new. Jones. 1919, **13**, 489.
- Ogata, Sukemasa. The activity of the isolated uterus. 1921, **18**, 185.
- Oil, fixed (peanut oil), injected intraperitoneally, Some observations upon the behavior of. Schwartz. 1921, **17**, 115.
- , Observations upon the intraperitoneal injection of fixed, as a vehicle for administering fat soluble substances. Schwartz. (Proceedings) 1920 **15**, 240.
- of chenopodium and fatty oils, The production of renal changes by, and the protective action of diet on the kidney. Salant and Bengis. 1917, **9**, 529.
- of chenopodium and its components, A study of. Livingston. (Proceedings) 1922, **19**, 266.
- of chenopodium, Further studies on the pharmacological action of. Salant and Livingston. (Proceedings) 1916, **8**, 122.
- of chenopodium, Investigations on the composition of, and the anthelmintic value of some of its components. Hall and Hamilton. 1918, **11**, 231.
- of chenopodium, The influence of, on the heart of the turtle. Salant and Battle. (Proceedings) 1921, **17**, 331.
- of chenopodium, The pharmacology of. Salant. (Proceedings) 1910-11, **2**, 391.
- Oils, The action of certain volatile, on isolated intestinal segments. Gerald and Muirhead. 1916, **8**, 253.
- , The action of so-called emmenagogue, on the isolated uterine strip. Macht. 1912-13, **4**, 547.
- , the action of the "emmenagogue," on the human uterus. Gunn. 1921, **16**, 485.
- , The carminative action of volatile. Gunn. 1921, **16**, 39.
- , The effect of carminative volatile, on the muscular movements of the intestine. Plant. 1921, **16**, 311.
- Olivecrona, Herbert. The action of histamine and peptone on the isolated small intestine. 1921, **17**, 141.
- Oliver, Jean, and Douglas, Ethel. Biological reactions of arsphenamine. I. The mechanism of its agglutinative action on red blood cells in vitro. 1922, **19**, 187.
- , and Yamada, S. S. Biological reactions of arsphenamine. II. The protective action of hydrophilic colloids on the agglutination of red blood cells by arsphenamine. 1922, **19**, 190.
- , and Yamada, S. S. Biological reactions of arsphenamine. III. Its immediate toxicity as contrasted with its late ill effects, and the rôle of agglutination in the production of the former. 1922, **19**, 393.

- Oncometer or plethysmograph, A transparent celluloid renal. Schwartz. 1919, 12, 215.
- Opium action, Action of hydrastine, hydrastinine, cotarnine, emetine and some pyridine derivatives, with a further analysis of the. On the pharmacology of the ureter. IV. Macht. 1917, 9, 287.
- alkaloids, A note on the pharmacological action of. Jackson. 1914-15, 6, 57.
- alkaloids, A quantitative study of the analgesia produced by, individually and in combination with each other, in normal man. Macht, Herman and Levy. 1916, 8, 1.
- alkaloids, Action of, on the ducts of the testis. Macht. 1917, 9, 121.
- alkaloids, Action of the, individually and in combination with each other, on the respiration. Macht. 1915, 7, 339.
- alkaloids, Action of the. On the pharmacology of the ureter. III. Macht. 1917, 9, 197.
- alkaloids, Effect of, on the behavior of rats in the circular maze. Macht and Mora. 1921, 16, 219.
- alkaloids individually and in combination with each other on the gall bladder, On the comparative effects of the. Macht. 1917, 9, 473.
- alkaloids individually and in combination with each other on paramecia, On the toxic action of. Macht and Fisher. 1917-18, 10, 95.
- alkaloids, On the peripheral action of the. Effect on the sensory nerve terminals. Macht, Johnson and Bollinger. 1916, 8, 451.
- alkaloids, On the relation between the chemical structure of the, and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzylesters. I. On the relation of the chemical structure of the opium alkaloids to their action on smooth muscle. Macht. 1918, 11, 389.
- alkaloids, On the relation between the chemical structure of the, and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. II. A pharmacological and therapeutic study of some benzyl esters. Macht. 1918, 11, 419.
- alkaloids, On the relation of the chemical structure of, to their action of smooth muscle structures. Macht. (Proceedings) 1918, 11, 176.
- alkaloids, Straub's biologic test for. Jensen and Rumry. (Proceedings) 1918, 11, 178.
- , The effect of morphine and, on psychological reaction time. Macht and Isaacs. (Proceedings) 1917, 9, 351.
- Optic isomers, Action of some. On the pharmacology of the ureter. VI. Macht. 1919, 12, 255.
- isomers, The action of some, on the ureter. Macht. (Proceedings) 1917, 9, 351.
- isomers of leucin, In regard to the detoxification of benzoic acid by. Amberg and Koelker. 1910-11, 2, 59.
- isomers, On. V. The tropeines. Cushny. 1919, 13, 71.
- isomers, On. VI. The tropeines. Cushny. 1920, 15, 105.
- isomers. VII. Hyoscines and hyoscyamines. Cushny. 1921, 17, 41.

- Optochin, A study of ethylhydrocuprein in lobar pneumonia. Moore and Chesney. (Proceedings) 1917, **9**, 364.
- (ethylhydrocuprein), The comparative pharmacologic action of quinine and. Smith and Fantus. 1916, **8**, 53.
- Orr, S. J., Carlson, A. J., Van de Erve, J., and Lewis, J. H. Contributions to the physiology of the stomach. XVI. Action of the so-called stomachics or bitters on the hunger mechanism. 1914-15, **6**, 209.
- Osborne, T. B., and Mendel, L. B. The growth of chickens under laboratory conditions. (Proceedings) 1918, **11**, 170.
- , and Mendel, L. B. Stability of growth-promoting substance in butter fat. (Proceedings) 1916, **8**, 109.
- Ott, Isaac, and Scott, J. C. The action of glandular extracts upon the amount of epinephrine in the blood. 1911-12, **3**, 625.
- Ouabain, Influence of temperature and concentration on the quantitative reaction of the heart to. Sollmann, Mendenhall and Stingel. 1914-15, **6**, 533.
- , The effect of temperature on the response of frogs to. Sollmann, Mendenhall and Stingle. (Proceedings) 1914-15, **6**, 605.
- vs. diphtheria toxin. Drug action as modified by disease toxins. I. Bush. 1919, **13**, 55.
- Overton and Meyer's theory of narcosis, The relation of the phosphatides to. Koch and McLean. 1910-11, **2**, 249.
- Oxalate, Studies on tolerance and cumulation. Experiments with tartrate, citrate and. Salant and Swanson. (Proceedings) 1917, **9**, 353.
- Oxalates, Observations on the action of tartrates, citrates and. A study in tolerance, cumulation and the effect of diet. Salant and Swanson. 1918, **11**, 133.
- Oxidation, The mechanisms of stimulation of the medullary centers by decreased. Gasser and Loevenhart. 1913-14, **5**, 239.
- , The mode of action of certain stimulants in increasing and of certain depressants in decreasing. Burge. 1919, **12**, 243.
- Oxidations, The morphological changes in the tissues of the rabbit as a result of reduced. Martin, Bunting and Loevenhart. (Proceedings) 1916, **8**, 112.
- Oxidative processes, The action of drugs on. Voegtlin. (Proceedings) 1911-12, **3**, 472.
- Oxidizing substances, Studies on the pharmacological action of. Loevenhart and Grove. 1911-12, **3**, 101.
- substances, The effect of alkalies and acids and certain, on the isolated mammalian heart. Loevenhart and Eyster. 1913-14, **5**, 21.
- Oxyconessine, Action of conessine and holarrhenine, the alkaloids of *holarrhena congolensis* and also of. Burn. 1914-15, **6**, 305.
- Oxygen, A note on the combined action of camphor and lack of, upon the isolated mammalian heart, with an observation upon the direct action of lack of oxygen upon blood vessels. Richards. 1914-15, **6**, 73.
- inhalation, The influence of, on the circulation in a case of cyanosis. Studies on the circulation in man. IV. Stewart. 1910-11, **2**, 477.
- , The influence of, upon inflammatory reactions. Amberg, Loevenhart and McClure. 1917-18, **10**, 209.

- Oxyiodosobenzoic, iod-, and iodoso- acids, Pharmacological action of. A preliminary note. Loevenh art and Grove. 1910, **1**, 289.
- p-Oxy-meta-amino-phenyl-arsenoxide, The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of arsphenamine, neoarsphenamine and. Quantitative pathological studies with arsenic compounds. I. Hooper, Kolls and Wright. 1921, **18**, 133.
- p-Oxyphenylethylamine as a morphine antagonist. Barbour, Mauer and v. Glahn. (Proceedings) 1916, **8**, 124.
- Palmer, W. W., Newburgh, L. H., and Henderson, L. J. The swelling of colloids and hydrogen ion concentration. 1913-14, **5**, 449.
- Pancreas, Effect of adrenaline and extracts of liver and, on blood dextrose. Ross and Davis. 1923, **20**, 121.
- , The antagonism of the adrenal glands against the. Edmunds. 1910, **1**, 135.
- , The inhibition of the. Edmunds. (Proceedings) 1910, **1**, 571.
- Pancreatic activity, Further study of the relation of the adrenals to. Edmunds. 1910-11, **2**, 559.
- secretion, A comparison of the influence of secretine and the antineuritic vitamine on, and bile flow. Voegtlin and Myers. 1919, **13**, 301.
- secretion, The action of adrenaline in inhibiting the flow of. Mann and McLachlin. 1917-18, **10**, 251.
- Pankow, L. J., and Hirschfelder, A. D. A comparison of the antiseptic action of various aromatic ethoxy and hydroxy compounds upon the pneumococcus and gonococcus. (Proceedings) 1922, **19**, 248.
- Paramecia, On the toxic action of opium alkaloids individually and in combination with each other on. Macht and Fisher. 1917-18, **10**, 95.
- Parasitocidal action, A factor governing toxicity and. Rate of excretion of arsenicals. Voegtlin and Thompson. (Proceedings) 1922, **19**, 258.
- action, Rate of excretion of arsenicals, a factor governing toxicity and. Quantitative studies in chemotherapy. VI. Voegtlin and Thompson. 1923, **20**, 85.
- Parasympathetic and sympathetic stimulants and depressants, Responses of fish melanophores to. Barbour and Spaeth. (Proceedings) 1917, **9**, 356.
- Parathyroidectomy, On the influence of various salts upon tetany following. Voegtlin and MacCallum. 1910-11, **2**, 421.
- Parathyroids in dogs, The inhibitory action of sodium chloride upon the phenomena following the removal of the. Joseph and Meltzer. (Proceedings) 1910-11, **2**, 404.
- in dogs, The inhibitory action of sodium chloride upon the phenomena following the removal of the. A preliminary communication. Joseph and Meltzer. 1910-11, **2**, 361.
- Parazol as a skin irritant. Livingston. (Proceedings) 1919, **13**, 507.
- Park, W. H. The advantages of single over multiple doses of antitoxin and of intravenous over subcutaneous or intramuscular injections. (Proceedings) 1911-12, **3**, 474.
- Pearce, Louise, and Brown, W. H. Concerning the presence of spirocheticidal action in a group of drugs in which possess no trypanocidal action in vivo. (Proceedings) 1920, **15**, 243.

- Pearce, Louise, and Brown, W. H. On the therapeutic action of ureids of N-phenylglycine-p-arsonic acid in trypanosome and spirochete infections. (Proceedings) 1920, **15**, 242.
- , and Brown, W. H. On the toxicologic action of ureids of N-phenylglycine-p-arsonic acid with special reference to the β -methyl ureid. (Proceedings) 1920, **15**, 240.
- , and Brown, W. H. Primary scrotal syphilis of the rabbit and its utilization in chemotherapeutic experiments. (Proceedings) 1917, **9**, 355.
- , and Brown, W. H. Some aspects of the biological action of n-phenylglycine amide-p-arsonic acid. (Proceedings) 1919, **13**, 502.
- , and Brown, W. H. Summary of results from the treatment of human trypanosomiasis with tryparsamide. (Proceedings) 1922, **19**, 257.
- , and Brown, W. H. The toxicity of salvarsan and neosalvarsan. (Proceedings) 1917, **9**, 354.
- Pearce, R. M., and Eisenbrey, A. B. A study of the action of the heart in anaphylactic shock in the dog. 1912-13, **4**, 21.
- Peeler, J. O., and Greene, C. W. The central action of digitalis as tested by the cardio-inhibitory center. 1915, **7**, 591.
- , Greene, C. W., and Boutwell, L. B. An analysis of the action of digitalis on the cardiac inhibitory center and on the cardiac muscles. (Proceedings) 1914-15, **6**, 598.
- Pelz, M. D., and Jackson, D. E. Experimental observations on anaphylaxis in the dog. (Proceedings) 1918, **11**, 173.
- , and Jackson, D. E. The distribution and function of certain nerves in chelonians. (Proceedings) 1918, **11**, 169.
- Penis muscle, Action on the retractor, of the dog. The point of attack of certain drugs acting on the periphery. II. Edmunds. 1920, **15**, 201.
- Peptone shock, The relation of blood concentration to. Studies on the physiological action of some protein derivatives. V. Underhill and Ringer. 1922, **19**, 163.
- , The action of histamine and, on the isolated small intestine. Olivecrona. 1921, **17**, 141.
- Perfusion of isolated organs, Apparatus for the. Richards and Drinker. 1915, **7**, 467.
- of isolated organs especially the isolated mammalian heart, Apparatus for. Eyster and Loevenhart. 1913-14, **5**, 57.
- Peripheral action of certain drugs with special reference to the lungs. Jackson. 1912-13, **4**, 291.
- reactions to the metal, The pulmonary action of vanadium together with a study of the. Jackson. 1912-13, **4**, 1.
- Periphery, The point of attack of certain drugs acting on the. I. Action on the bladder. Edmunds and Roth. 1920, **15**, 189.
- , The point of attack of certain drugs acting on the. II. Action on the retractor penis muscle of the dog. Edmunds. 1920, **15**, 201.
- Peritoneal and pleural absorption. Dandy and Rowntree. (Proceedings) 1911-12, **3**, 460.
- cavity, Absorption from the. Clark. 1921, **16**, 415.

- Phelps, I. K., and Salant, William. Demethylation of caffeine and theobromine under pathological conditions. (Proceedings) 1911-12, **3**, 469.
- , and Salant, William. The influence of caffeine on protein metabolism in the dog with some remarks on demethylation in the body. (Proceedings) 1910-11, **2**, 401.
- Phenol derivatives, A quantitative study of the toxicity of, for strongylid larvae. Schultz. (Proceedings) 1922, **19**, 262.
- , The action of. Studies on the vasomotor centre. X. Pilcher and Sollmann. 1914-15, **6**, 377.
- , The inhibitory action of, on absorption. Quantitative Studies on the gastro-intestinal absorption of drugs. I. Sollmann, Hanzlik and Pilcher. 1910, **1**, 409.
- Phenolphthalein oxine, The physiological action of. Dresbach. 1911-12, **3**, 161.
- Phenolphthalic acid, Note concerning the laxative properties of the tribasic salts of. Rowntree. 1910-11, **2**, 469.
- Phenolsulphonephthalein, A practical method for the preparation of. Slagle. 1910, **1**, 662.
- , A study of the excretion of repeated doses of. Arbuthnot, Snowden and Brooks. (Proceedings) 1917, **9**, 349.
- , An experimental and clinical study of the functional activity of the kidneys by means of. Rowntree and Geraghty. 1910, **1**, 579.
- in estimating the functional capacity of the kidney, Further data relating to the value of. Rowntree and Geraghty. (Proceedings) 1910-11, **2**, 393.
- , On the use of, in estimating the function of the kidneys. Rowntree and Geraghty. (Proceedings) 1910, **1**, 576.
- Phenoltetrachlorophthalein, An improved method for using, as a liver function test. Rosenthal. 1922, **19**, 385.
- Phenyl carbinols, The local anesthetic action of saligenin and other. Hirschfelder, Lundholm and Norrgard. (Proceedings) 1920, **15**, 237.
- carbinols, The local anesthetic actions of saligenin and other. Hirschfelder, Lundholm and Norrgard. 1920, **15**, 261.
- carbinols, The relation of substitution in the carbinol group to the pharmacological action of some. Quigley and Hirschfelder. (Proceedings) 1921, **17**, 326.
- methyl carbinol, The local anesthetic properties of. Hjort and Kaufmann. 1920, **15**, 129.
- Phenyleinchoninic acid, Studies on the influence of, and the ethyl ester of paramethylphenyleinchoninic acid on renal excretion. Myers and Killian. 1921, **18**, 213.
- Phenylethylamine, Action of some derivatives of. Barbour. (Proceedings) 1916, **8**, 126.
- , The action of, on the heart. Barbour and Frankel. 1915, **7**, 511.
- p-Phenylenediamine, The edema of. Gibbs. 1923, **20**, 221.
- n-Phenylglycine amide-p-arsonic acid, Some aspects of the biological action of. Pearce and Brown. (Proceedings) 1919, **13**, 502.
- n-Phenylglycine-p-arsonic acid, On the therapeutic action of ureids of, in trypanosome and spirochete infections. Pearce and Brown. (Proceedings) 1920, **15**, 242.

- N-phenylglycine-p-arsonic acid, On the toxicologic action of ureids of, with special reference to the β -methyl ureid. Pearce and Brown. (Proceedings) 1920, **15**, 240.
- Phenylquinolin carbonic acid (atophan), On the influence of, on the uric acid elimination. Folin and Lyman. 1912-13, **4**, 539.
- "Phosphate rock," sodium fluoride, sodium chloride, calcium phosphate (precipitated), calcium and carbonate (precipitated), Fluoride, chloride and calcium, including. Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- Phosphates, Toxicity of, in relation to blood calcium and tetany. Binger. 1917-18, **10**, 105.
- Phosphatides, Methods for the study of their combination with drugs and other substances. Koch. 1910-12, **2**, 239.
- , The function of the brain, in the physiological action of strychnine. Koch and Mostrom. 1910-11, **2**, 265.
- , The relation of brain, to tissue metabolites. Koch and Williams. 1910-11, **2**, 253.
- , The relation of the, to Overton and Meyer's theory of narcosis. Koch and McLean. 1910-11, **2**, 249.
- , The relation of the, to the sodium and potassium of the neuron. Koch and Pike. 1910-11, **2**, 245.
- Phthaleins and their derivatives, On the pharmacological action of some, with especial reference to their behavior as purgatives. I. Abel and Rowntree. 1910, **1**, 231.
- Phylogeny of the nervous system, Functional evidence of the, as shown by the behavior and resistance of the developing rat to strychnine. Schwartze. 1922, **19**, 273.
- Physostigmine, pilocarpine and strychnine, The importance of the adrenal glands in the action of. Edmunds. 1923, **20**, 405.
- , The action of drugs upon the output of epinephrine from the adrenals. VII. Stewart and Rogoff. 1921, **17**, 227.
- , The influence of, upon the sphincter muscle of the iris. Joseph. (Proceedings) 1917, **9**, 357.
- , The life-saving action of, in poisoning by magnesium salts. Joseph and Meltzer. 1910, **1**, 369.
- , The mutually antagonistic actions of adrenaline and, upon the sphincter muscle of the iris. Joseph. (Proceedings) 1917, **9**, 358.
- Pia Mater, Effect of drugs upon the vessels of the retina and. Hirschfelder. (Proceedings) 1914-15, **6**, 597.
- Picric acid, Experiments on the toxicity of, on the frog and on the rabbit. Brown, Ahlfs and Howard. (Proceedings) 1920, **15**, 235.
- Picrotoxin hyperglycemia. Tatum. 1923, **20**, 385.
- Pike, F. H., and Koch, W. The relation of the phosphatides to the sodium and potassium of the neuron. 1910-11, **2**, 245.
- Pilcher, J. D. Action of certain drugs on the excised uterus of the guinea pig. (Proceedings) 1916, **8**, 110.
- , Alcohol and caffeine: a study of antagonism and synergism. 1911-12, **3**, 207.

- Pilcher, J. D. Quantitative studies on vagus stimulation and atropine. (Proceedings) 1913-14, **5**, 525.
- , The action of bland oils on certain hemolytic agents. (Proceedings) 1912-13, **4**, 350.
- , The action of caffeine on the mammalian heart. 1911-12, **3**, 609.
- , The bio-assay and variability of veratrum preparations. (Proceedings) 1917, **9**, 350.
- , and Sollmann, Torald. Antagonistic studies with alcohol and caffeine. (Proceedings) 1911-12, **3**, 473.
- , and Sollmann, Torald. Central vasomotor effects. (Proceedings) 1910, **1**, 571.
- , and Sollmann, Torald. Endermic reactions. I. 1917, **9**, 309.
- , and Sollmann, Torald. Endermic reactions. (Proceedings) 1917, **9**, 350.
- , and Sollmann, Torald. Quantitative studies of vagus stimulation and atropine. 1913-14, **5**, 317.
- , and Sollmann, Torald. Studies on the vasomotor centre—I. The effects of the nitrite group. 1914-15, **6**, 323.
- II. The action of strychnine, 331.
- III. The action of epinephrine, 339.
- IV. The action of camphor, 345.
- V. The action of chloroform, 349.
- VI. The action of cyanide, 361.
- VII. The action of aconite, 365.
- VIII. The action of nicotine, 369.
- IX. The action of spartein, 373.
- X. The action of phenol, 377.
- XI. The action of choline, 381.
- XII. The action of ergot and its constituents ergotoxin, and histamine, 385.
- XIII. The action of hydrastis; its alkaloids hydrastine and berberine; and the derivatives hydrastine and cotarnine, 391.
- XIV. The action of digitalis and strophanthus, 395.
- XV. The action of ether, 401.
- XVI. The action of pituitary extract, 405.
- XVII. The action of lactic acid, 409.
- , and Sollmann, Torald. Studies on the vasomotor centre: XVIII. The effects of veratrum viride and cevadine (veratrine). 1915, **7**, 295.
- , and Sollmann, Torald. The actions of caffeine on the mammalian circulation. I. The persistent effects of caffeine on the circulation. 1911-12, **3**, 19.
- , Sollmann, Torald, and Hanzlik, P. J. Quantitative studies on the gastrointestinal absorption of drugs: 1. The inhibitory action of phenol on absorption. 1910, **1**, 409.
- Pilocarpine, A further analysis of the augmentor effect of lecithin on the action of. On the influence of colloids on the action of non-colloidal drugs. V. Storm van Leeuwen and v. Szent Györgi. 1923, **20**, 1.
- and atropine, The effects of, upon the amylolytic power and composition of saliva. Ewing. 1911-12, **3**, 1.

- Pilocarpine, atropine and adrenaline, A note on the action of, upon the tonus waves in the terrapin heart. III. Gruber. 1920, **15**, 23.
- , atropine and adrenaline, Tonus waves in the terrapin auricles as affected by. Gruber and Markel. 1919, **12**, 53.
- , atropine. The action of drugs on the output of epinephrine from the adrenals. VI. Stewart and Rogoff. 1921, **16**, 71.
- , Influence of, on the glycogenic function. McGuigan. 1916, **8**, 407.
- , On certain antagonists of. Ransom. 1917-18, **10**, 169.
- , physostigmine and strychnine, The importance of the adrenal glands in the action of. Edmunds. 1923, **20**, 405.
- , The action of, upon sympathetic nerve endings. Edmunds. (Proceedings) 1922, **19**, 271.
- Pirquet, C. F. von. Quantitative experiments with the cutaneous tuberculin reaction. 1910, **1**, 151.
- Pituitary active principles, On histamine and the. Dale and Dudley. 1921, **18**, 27.
- extract and other drugs, Concerning a new method for the biological standardization of. Spaeth. 1918, **11**, 209.
- extract, Histamine and. Cow. 1920, **14**, 275.
- extract, Histamine and. Abel and Macht. 1920, **14**, 279.
- extract, The action of. Studies on the vasomotor centre. XVI. Pilcher and Sollmann. 1914-15, **6**, 405.
- extracts, A new standard for the determination of the strength of. Roth. 1913-14, **5**, 559.
- extracts, The physiological assay of. Nelson. (Proceedings) 1922, **19**, 270.
- extracts, The several factors involved in the standardization of. Roth. (Proceedings) 1914-15, **6**, 596.
- gland, A pressor compound from the. Crawford. 1920, **15**, 81.
- gland, Does the, contain epinephrine or a compound similar to it? Watanabe and Crawford. 1916, **8**, 75.
- gland, Evaluation of the hormone of the infundibulum of the, in terms of histamine, with experiments on the action of repeated injections of the hormone on the blood pressure. Abel and Rouiller. 1923, **20**, 65.
- gland, On the presence of histamine in extracts of the posterior lobe of the, and on preliminary experiments with the pressor constituent. Abel and Nagayama. 1920, **16**, 347.
- gland, On the relative amounts of depressor and broncho-constrictor substance obtainable from the anterior and posterior lobes of the fresh. Roca. 1921, **18**, 1.
- gland, Some observations on the active principles of the. Dudley. 1920, **14**, 295.
- (infundibular) extracts, A method of standardising. Dale and Laidlaw. 1912-13, **4**, 75.
- Pituitrin diuresis, The relation of vascular conditions to. Hoskins and Means. 1912-13, **4**, 435.
- , The effect of epinephrine and, upon the blood vessels when injected subcutaneously in the ear of a rabbit. Auer and Meltzer. (Proceedings) 1919, **13**, 511.

- Pituitrin, The influence of adrenaline and, on the pupil of normal and ganglionectomized rabbits. Githens and Meltzer. (Proceedings) 1917, **9**, 360.
- , The influence of, upon the depressor action of the vagus nerve in the cat. Aufer and Meltzer. (Proceedings) 1912-13, **4**, 359.
- Plant, O. H. A note on the efficiency of the Knowlton-Starling isolated heart-lung preparation for testing the cardiac action of drugs. 1913-14, **5**, 603.
- , Experiments on the cardiac action of camphor. (Proceedings) 1913-14, **5**, 513.
- , Experiments on the cardiac action of camphor. 1913-14, **5**, 571.
- , The effect of carminative volatile oils on the muscular movements of the intestine. 1921, **16**, 311.
- , and Reynolds, C. Effect of caffeine on intestinal movements. (Proceedings) 1922, **19**, 256.
- , and Richards, A. N. Urine formation by the perfused kidney: preliminary experiments on the action of caffeine. 1915, **7**, 485.
- Plasma and blood clotting efficiency of thromboplastic agents in vitro and their stability. Hanzlik and Weidenthal. 1920, **14**, 157.
- removal with return of corpuscles (Plasmapheresis). Abel, Rowntree and Turner. 1913-14, **5**, 625.
- volume, The relation of, to the number of erythrocytes per unit volume of blood. The rôle of the liver in acute polycythaemia. III. Lamson and Keith. 1916, **8**, 247.
- Plasmapheresis, Observations on. Turner, Marshall and Lamson. 1915, **7**, 129.
- , Plasma removal with return of corpuscles. Abel, Rowntree and Turner. 1913-14, **5**, 625.
- Plethysmograph, A simple liver. Edmunds. (Proceedings) 1913-14, **5**, 520.
- , A transparent celluloid renal oncometer or. Schwartze. 1919, **12**, 215.
- Pleural and peritoneal absorption. Dandy and Rowntree. (Proceedings) 1911-12, **3**, 460.
- Plumbism, Experimental: Therapeutic efficiency of some agents and comparative toxicity of certain metals. Hanzlik, McIntyre and Presho. (Proceedings) 1922, **19**, 248.
- Pneumococcus, A comparison of the antiseptic action of various aromatic ethoxy and hydroxy compounds upon the gonococcus and. Hirschfelder and Pan-kow. (Proceedings) 1922, **19**, 248.
- Pneumonia, A study of ethylhydrocuprein (optochin) in lobar. Moore and Chesney. (Proceedings) 1917, **9**, 364.
- Poison ivy, Experiments on the variability in susceptibility to. Brown. (Proceedings) 1921, **17**, 335.
- , The toxicity of Vaughan's crude soluble. Studies on the physiological action of some protein derivatives. IV. Underhill and Hjort. 1922, **19**, 145.
- , The influence upon blood concentration of Vaughan's crude soluble. Studies on the physiological action of some protein derivatives. VI. Underhill and Ringer. 1922, **19**, 179.
- Poisonous principle in certain cotton-seed meals. Crawford. 1910, **1**, 519.
- Poisons in the amanitas, The distribution of. Ford. 1910, **1**, 275.
- in fungi, Further observations on the immunisation of animals to the. Ford. 1910-11, **2**, 145.

- Poisons in fungi, The distribution of haemolysins, agglutinins and, especially in the amanitas, the entolomas, the lactarius and the inocybes. Ford. 1910-11, **2**, 2 85.
- , The sensitiveness to, in avitaminous animals. Storm van Leeuwen and Verzár. 1921, **18**, 293.
- Polycythaemia, a mechanism for the regulation of the red blood corpuscle content of the blood, The rôle of the liver in acute. Lamson. 1915, **7**, 169.
- , Further studies on the rôle of the liver in acute. Lamson. (Proceedings) 1916, **8**, 130.
- , The rôle of the liver in acute II. The effect of epinephrine and emotional stimuli on the red corpuscle content of the blood in rabbits. Lamson. 1916, **8**, 167.
- , The rôle of the liver in acute. III. The relation of plasma volume to the number of erythrocytes per unit volume of blood. Lamson and Keith. 1916, **8**, 247.
- , The rôle of the liver in acute. IV. Further observations on the effect of shutting off the arterial blood supply to the liver, the reaction of the normal animal to epinephrine, and removal of the liver from the circulation. Lamson. 1917, **9**, 129.
- Polyhydric alcohols, Experimental inquiry into the narcotic properties of some. Macht and Ting. (Proceedings) 1922, **19**, 252.
- Polyn neuritis, Experimental mammalian, produced by a diet deficient in antineuritic "vitamine." Voegtlin and Lake. (Proceedings) 1918, **11**, 167.
- Portal circulation of the liver, The rôle of, in bile formation and jaundice. Voegtlin and Bernheim. (Proceedings) 1910-11, **2**, 404.
- circulation of the liver, The rôle of the, in bile formation and jaundice. Voegtlin and Bernheim. 1910-11, **2**, 455.
- vein, Anastomosis between the inferior vena cava and the (Eck's fistula). Bernheim, Homans and Voegtlin. 1910, **1**, 463.
- vein, Some vasomotor reactions of the liver, with special reference to the presence of vasomotor nerves to the. Edmunds. 1914-15, **6**, 569.
- Porter, W. T., and Pratt, J. H. The action of diphtheria toxin on the vasomotor center. (Proceedings) 1912-13, **4**, 352.
- Potassium chloride, Saline perfusion of the respiratory center in frogs: the effect of calcium chloride and. Hooker. 1912-13, **4**, 443.
- chloride, The antagonistic actions of epinephrine and, on the tonus and tonus waves in the excised terrapin auricles. IV. Gruber. 1920, **15**, 271.
- iodide, Absorption of, by the thyroid gland in vivo, following its intravenous injection in constant amounts. Marine and Rogoff. 1916, **8**, 439.
- iodide, The absorption of, by perfused thyroid glands and some of the factors modifying it. Marine and Feiss. 1915, **7**, 557.
- salt, The detoxifying action of sodium salt on, in the guinea pig. Amberg and Helmholtz. 1919, **12**, 19.
- salts, The action of, on the medulla as shown by perfusion of the medulla of the terrapin (*Pseudomys troostii*) with potassium salts. Heinekamp. 1922, **19**, 230.
- salts, The detoxifying action of sodium salts upon, on intravenous injection. Amberg and Helmholtz. (Proceedings) 1916, **8**, 120.

- Potassium, The comparative toxicity of the chlorides of magnesium, calcium, sodium and. Joseph and Meltzer. 1910, **1**, 1.
- , The mode of action of, upon isolated organs. Clark. 1921, **18**, 423.
- , The relation of the phosphatides to the sodium and, of the neuron. Koch and Pike. 1910-11, **2**, 245.
- Pratt, J. H., and Grabfield, G. P. Observations on the action of cinchophen in human subjects with normal nucleic acid metabolism. (Proceedings) 1922, **19**, 261.
- , and Morrison, Hyman. Tests of the pharmacological activity of American grown digitalis. (Proceedings) 1917, **9**, 341.
- , and Porter, W. T. The action of diphtheria toxin on the vasomotor center. (Proceedings) 1912-13, **4**, 352.
- , and Wesselhoeft, Conrad. Pharmacological activity of digitalis preparations. (Proceedings) 1916, **8**, 118.
- Presho, E., and Hanzlik, P. J., and De Eds, Floyd. Urinary excretion of salicyl after the administration of salicylates and salicyl esters. (Proceedings) 1922, **19**, 248.
- , Hanzlik, P. J., and McIntyre, M. Experimental plumbism: therapeutic efficiency of some agents and comparative toxicity of certain metals. (Proceedings) 1922, **19**, 248.
- Pressor compound from the pituitary gland. A. Crawford. 1920, **15**, 81.
- constituent, On the presence of histamine in extracts of the posterior lobe of the pituitary gland and on preliminary experiments with the. Abel and Nagayama. 1920, **15**, 347.
- Prince, A. L., and Barbour, H. G. III. The control of the respiratory exchange by heating and cooling the temperature centers. 1914-15, **6**, 1.
- , Henderson, Yandell, and Haggard, H. W. The influence of forced breathing on the circulation. 1918, **11**, 203.
- Pringle, Harold, and Tait, John. On the increase of "tone" associated with the action of strophanthus on the heart. 1916, **8**, 339.
- Proceedings of the American Society for Pharmacology and Experimental Therapeutics. 1910, **1**, 569.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1910-11, **2**, 391.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1911-12, **3**, 455.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1912-13, **4**, 341.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1913-14, **5**, 511.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1914-15, **6**, 595.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1916, **8**, 109.
- , of the American Society for Pharmacology and Experimental Therapeutics. 1917, **9**, 341.
- , American Society for Pharmacology and Experimental Therapeutics. 1918, **11**, 167.

- Proceedings of the American Society for Pharmacology and Experimental Therapeutics. 1919, **13**, 499.
- of the American Society for Pharmacology and Experimental Therapeutics. 1920, **15**, 233.
- of the American Society for Pharmacology and Experimental Therapeutics. 1921, **17**, 325.
- of the American Society for Pharmacology and Experimental Therapeutics. 1922, **19**, 247.
- Propanol and para-aminobenzoyl dinormal butylamino ethanol and diethyl amino-propyl diphenyl amino-carbinol. The effects of some new local anesthetics. Bonar and Sollmann. 1921, **18**, 467.
- Prophylactic effects, A comparison of the, of atropine and epinephrine in anaphylactic shock and anaphylactoid phenomena from various colloids and ar-sphenamine. Hanzlik and Karsner. 1920, **14**, 425.
- Prostate gland, Feeding experiments on tadpoles: and other substances. Rogoff and Rosenberg. 1922, **19**, 353.
- , The pharmacology of the. Waddell. 1917, **9**, 179.
- Protein cleavage products, The pharmacologic action of certain, upon the heart. Gibson and Schultz. 1910, **1**, 469.
- contents of the blood serum of rabbits, Effects of chloroform and of ether anesthesia on. Buck. 1913-14, **5**, 553.
- derivatives, Studies on the physiological action of some. IV. The toxicity of Vaughan's crude soluble poison. Underhill and Hjort. 1922, **19**, 145.
- derivatives, Studies on the physiological action of some. V. The relation of blood concentration to peptone shock. Underhill and Ringer. 1922, **19**, 163.
- derivatives, Studies on the physiological action of some. VI. The influence upon blood concentration of Vaughan's crude soluble poison. Underhill and Ringer. 1922, **19**, 179.
- diet, The effect of, on the growth of transplantable tumors of the white rat. Beebe and Van Alstyne. (Proceedings) 1912-13, **4**, 343.
- metabolism in dogs, The influence of caffeine on, with some remarks on demethylation in the body. Salant and Phelps. (Proceedings) 1910-11, **2**, 401.
- poison, Upon the action of. Edmunds. 1911-12, **3**, 461.
- precipitation, Astringency and, by masked tannin compounds. Sollmann. 1921, **17**, 63.
- quotient, On the non-influence of rise in body temperature induced by drugs upon the, and the enumeration of white corpuscles. Hill. 1919, **12**, 1.
- quotient, The non-dependence of the, in the blood serum upon the rapidity of metabolism, with especial reference to the non-effect of antipyretics, sodium cacodylate and thyroid extract. Hanson and McQuarrie. 1917-18, **10**, 261.
- sensitization, On the relation between degree and duration of, in guinea-pigs and dogs. Auer. (Proceedings) 1919, **13**, 511.
- therapy, Foreign. Brooks. (Proceedings) 1920, **15**, 234.
- Proteins, Attempts to produce a substance with thyroid-like activity by the artificial iodization of. Rogoff and Marine. 1917-18, **10**, 321.

- Proteins, Do local anesthetics precipitate? Sollmann. 1920, **14**, 135.
- , On the presence of histamine (β -iminazoly-ethylamine) in the hypophysis cerebri and other tissues of the body and its occurrence among the hydrolytic decomposition products of. Abel and Kubota. 1919 **13**, 243 and (Proceedings 1919, **13**, 509.
- , The influence of reaction on the precipitation of, by tannin. Sollmann. 1921, **16**, 49.
- Protozoöcidal and bactericidal action, Studies on. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. III. Walters, Baker and Koch. 1917-18, **10**, 341.
- Prouty, I. H., and Ford, W. W. Note on the amanita-toxin. 1910, **1**, 389.
- Psychological reaction time, The effect of morphine and opium on. Macht and Isaacs. (Proceedings) 1917, **9**, 351.
- Pulmonary action of the adrenal glands. Jackson. 1912-13, **4**, 59.
- action of vanadium together with a study of the peripheral reactions to the metal. Jackson. 1912-13, **4**, 1.
- artery, The action of drugs on the isolated. Macht. 1914-15, **6**, 13.
- edema in the rabbit, A respiratory factor in the production of adrenin. Gates and Auer. (Proceedings) 1917, **9**, 361.
- vessels, The action of adrenaline on the. Wiggers. 1910, **1**, 341.
- vessels, The effects of chlorine upon isolated bronchi and. Barbour and Williams. 1920, **14**, 47.
- Pulse, The influence of morphine on normal cats and on cats deprived of the greater part of the adrenals, with special reference to body temperature, and respiratory frequency and blood sugar content. Stewart and Rogoff. 1922, **19**, 97.
- , The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the adrenals, with special reference to body temperature, and respiratory frequency. Stewart and Rogoff. 1922, **19**, 87.
- Pupil, Is the dilatation of the, following gangliectomy due to vaso-dilatation? Githens and Meltzer. (Proceedings) 1916, **8**, 133.
- , The action of chloral on the. Hyatt, McGuigan and Rettig. 1920, **15**, 415.
- , The influence of pituitrin and adrenaline on the, of normal and gangliectomized rabbits. Githens and Meltzer. (Proceedings) 1917, **9**, 360.
- Purgatives, On the pharmacological action of some phthaleins and their derivatives, with especial reference to their behavior as. I. Abel and Rowntree. 1910, **1**, 231.
- , The influence of, upon blood concentration. Underhill and Errico. 1922, **19**, 135.
- Purines, The physiological action of some methylated. Mendel and Kahn. (Proceedings) 1912-13, **4**, 343.
- Pyman, F. L., and Wenyon, C. M. The action of certain emetine derivatives on amoebae. 1917-18, **10**, 237.
- Pyretics and antipyretics, The effect of, on catalase production. Burge. 1920, **14**, 121.
- Pyridine derivatives, Action of hydrastine, hydrastinine, cotarnine, emetine and some, with a further analysis of opium action. On the pharmacology of the ureter. IV. Macht. 1917, **9**, 287.

- Quaternary ammonium bases, The action of certain. Burn and Dale. 1914-15, **6**, 417.
- base, Isocalycanthine and its. McGuigan and Hess. 1911-12, **3**, 441.
- Quebracho, The alkaloids of. Cow. 1913-14, **5**, 341.
- Quigley, J. P., and Hirschfelder, A. D. The relation of substitution in the carbinol group to the pharmacological action of some phenyl carbinols. (Proceedings) 1921, **17**, 326.
- Quinidine, Clinical observations on. Scott. (Proceedings) 1922, **19**, 264.
- , Observations on the pharmacological action of. Lawrence, Friedlander and Jackson. (Proceedings) 1922, **19**, 263.
- sulphate, Experiments dealing with certain effects of, on the dog's heart. Cohn and Levy. (Proceedings) 1922, **19**, 259.
- Quinine, aconitine, morphine, cocaine. Drug perfusion of the medulla of the turtle. II. Bush. 1920, **15**, 173.
- , Action of, on the leucocytes. Roth. 1912-13, **4**, 157.
- and atophan in inflammation of frog's mesentery. Ikeda. 1916, **8**, 101.
- , Comparative pharmacologic action of ethylhydrocuprein (optochin) and. Smith and Fantus. 1916, **8**, 53.
- , Notes on the treatment of gassed dogs with calcium, with atropine and with. Drugs after chlorine gassing. III. Barbour. 1920, **14**, 131.
- , The action of cinchonine, cinchonidine and, on the isolated uterus. Hale. (Proceedings) 1914-15, **6**, 602.
- , The action of, on leucocytes. Roth. (Proceedings) 1911-12, **3**, 470.
- , The action of, on sugar mobilization with its bearing on the question of glycogenolysis. Tatum and Cutting. 1923, **20**, 393.
- , The effects of strychnine, cocaine and, on the vas deferens. Waddell. 1917, **9**, 279.
- Raap, Gerard, Mills, C. A., and Jackson, D. E. The relation between the blood coagulating and the smooth muscle contracting properties of tissue extracts. (Proceedings) 1921, **17**, 341.
- Radium emanation, Uric acid concentration of the blood as influenced by atophan and. Fine and Chace. 1914-15, **6**, 219.
- Raiziss, G. W. Quantitative studies of the colloidal properties of arsphenamine and allied products. (Proceedings) 1922, **19**, 271.
- , and Gavron, J. L. A study of the colloidal properties of arsphenamine and allied products. 1923, **20**, 163.
- Rana pipiens, The seasonal and sex variations of, to digitalis. Hale. (Proceedings) 1911-12, **3**, 458.
- Ransom, F. On certain antagonists of pilocarpine. 1917-18, **10**, 169.
- , The reaction of the cat's uterus to strophanthus and calcium. 1920, **15**, 181.
- , The restoration of the frog's heart in chloroform poisoning. 1920, **14**, 367.
- , and Dixon, W. E. The effect on the respiration of altered vascular conditions in the lungs. 1913-14, **5**, 539.
- Ransom, S. W., and Hoskins, R. G. The vasomotor reaction to nicotine: locus of stimulation. 1915, **7**, 375.
- Rapoport, F. H., and Barbour, H. G. Uterine effects of intravenous injections of fluids. 1921, **18**, 407.

- Rattlesnake serum and bile, The toxicity of, with a note on the effect of bile on the toxicity of venom. Welker and Marshall. 1914-15, **6**, 563.
- serum, The antitoxic action of, on rattlesnake venom with a note on the percentage of total solids of the serum and bile. Welker and Marshall. 1915, **7**, 125.
- venom, The antitoxic action of rattlesnake serum on, with a note on the percentage of total solids of the serum and bile. Welker and Marshall. 1915, **7**, 125.
- Red blood cells in vitro, The mechanism of its agglutinative action on. Biological reactions of arsphenamine. I. Oliver and Douglas. 1922, **19**, 187.
- blood cells, The protective action of hydrophilic colloids on the agglutination of, by arsphenamine. Biological reactions of arsphenamine. II. Oliver and Yamada. 1922, **19**, 199.
- corpuscle concentration in acute physiological conditions, The part played by the liver in the regulation of blood volume and. Lamson. 1921, **16**, 125.
- corpuscle content of the blood in rabbits, The effect of epinephrine and emotional stimuli on the. The rôle of the liver in acute polycythaemia. II. Lamson. 1916, **8**, 167.
- corpuscle content of the blood, The rôle of the liver in acute polycythaemia: a mechanism for the regulation of the. Lamson. 1915, **7**, 169.
- Reed, C. I. The mechanism of the toxic action of cyanogen chloride. 1920, **15**, 301.
- , The minimum concentration of dichlorethylsulphide (mustard gas) effective for the eyes of man. 1920, **15**, 77.
- Renal circulation, The effect on renal function of temporary occlusion of. Fitz and Rowntree. (Proceedings) 1912-13, **4**, 349.
- epithelium, A preliminary paper on the relation between the amount of stainable lipid material in the, and the susceptibility of the kidney to the toxic effect of the general anesthetics. MacNider. 1921, **17**, 289.
- excretion, Studies on the influence of phenyleinchroninic acid and the ethyl ester of paramethylphenyleinchroninic acid on. Myers and Killian. 1921, **18**, 213.
- function and albuminuria following the administration of full therapeutic doses of salicylate. Scott, Thoburn and Hanzlik. (Proceedings) 1917, **9**, 349.
- function and pathology, The effect of acids and alkalies on. MacNider. (Proceedings) 1920, **15**, 234.
- function in experimental nephritides, Studies in. Rowntree and Fitz. (Proceedings) 1911-12, **3**, 460.
- function in experimental passive congestion. Rowntree and Fitz. (Proceedings) 1912-13, **4**, 349.
- function, The effect of temporary occlusion of renal circulation on. Fitz and Rowntree. (Proceedings) 1912-13, **4**, 349.
- function, The elimination of hexamethylenetetramine (urotropine) as an index of. Falk and Sugiura. 1917, **9**, 241.
- irritants, The protective action of diet against. Salant and Bengis. (Proceedings) 1917, **9**, 344.

- Renal nerves, The effects of the section of the, on the secretion of the kidney. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- nerves, The effects of unilateral excision of the adrenal, section of the splanchnic nerve and section of the, on the secretion of the kidney. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- oncometer or plethysmograph, A transparent celluloid. Schwartz. 1919, **12**, 215.
- response to caffeine and theobromine in rabbits tolerant toward caffeine. Cross tolerance. Myers. (Proceedings) 1918, **11**, 177.
- substance, The secretion of urine and action of diuretics as influenced by blood flow and reduction of. Marshall and Kolls. (Proceedings) 1919, **13**, 507.
- Renshaw, R. R., Mendel, L. B., and Underhill, F. P. The action of salts of choline on arterial blood pressure. 1912, **3**, 649.
- , Mendel, L. B., and Underhill, F. P. The physiological action of salts of choline. (Proceedings) 1911-12, **3**, 457.
- Respiration, Action of the opium alkaloids, individually and in combination with each other, on the. Macht. 1915, **7**, 339.
- and circulation, The influence of sodium citrate on. Studies on the pharmacology of sodium citrate. I. Salant and Kleitman. 1923, **20**, 481.
- , Effect of alcohol on the gaseous metabolism in man and the. Higgins. 1917, **9**, 441.
- machine (portable), furnishing continuous, remittent and intermittent streams of air. Gates. (Proceedings) 1914-15, **6**, 611.
- , normal and depressed, The comparative stimulant efficiency of some local and systemic agents on, and irritant efficiency of some agents. Hanzlik. 1923, **20**, 463.
- , Observations on the changes in the circulatory system in periodic. Clark and Hamill. 1913-14, **5**, 357.
- , Stimulation of, by sodium cyanide. Loevenhart. (Proceedings) 1918, **11**, 185.
- , Studies on stimulation of the. The action of respiratory stimulants upon the respiration when depressed by the increased intracranial pressure with special reference to sodium cyanide. Loevenhart, Malone and Martin. 1922, **19**, 13.
- The action of certain drugs on. Schmidt and Harer. (Proceedings) 1922, **19**, 269.
- , The action of hydrocyanic acid on the, and the antagonistic action of sodium iodosobenzoate. Grove and Loevenhart. 1911-12, **3**, 131.
- The action of tetramethyl ammonium chloride on the circulation and. Loevenhart. (Proceedings) 1913-14, **5**, 515.
- , The determination of the circulation time in rabbits and dogs and its relation to the reaction time of the, to sodium cyanide. Loevenhart, Schlomovitz and Seybold. 1922, **19**, 221.
- , The effect of certain drugs on the gaseous metabolism and, in normal human subjects. Higgins and Means. 1915, **7**, 1.
- , The effect of hematin on the circulation and. Brown and Loevenhart. (Proceedings) 1912-13, **4**, 347.

- Respiration, The effect on the, of altered vascular conditions in the lungs. Dixon and Ransom. 1913-14, **5**, 539.
- , The nature of the cessation of, in deep ether anesthesia. Githens and Meltzer. (Proceedings) 1913-14, **5**, 523.
- , Two types of periodic, due to morphine. Barbour. 1913-14, **5**, 393.
- , Two types of periodic, produced by morphine. Barbour. (Proceedings) 1913-14, **5**, 525.
- Respiratory center, Concerning the action of the iodide, bromide and nitrate ions on the. Macht and Hooker. 1918, **11**, 63.
- center in frogs, Saline perfusion of the, and the effect of calcium chloride and potassium chloride. Hooker. 1912-13, **4**, 443.
- center, On the pharmacology of the. Cushny. 1912-13, **4**, 363.
- center, On the pharmacology of the. II. Cushny and Lieb. 1914-15, **6**, 451.
- center, The action of alcohol on the vasomotor center and. Hyatt and Jensen. (Proceedings) 1918, **11**, 173.
- center, The antagonistic action of drugs on the. Voegtlin and Wiggers. (Proceedings) 1918, **11**, 168.
- center, The determination of the circulation time in dogs and rabbits and its relation to the reaction time of the, to sodium cyanide. Seybold, Loevenhart and Schlomovitz. (Proceedings) 1921, **17**, 345.
- center, The effect of lactic acid on the. Cohen. (Proceedings) 1918, **11**, 172.
- center, The effect of lactic acid on the. Cohen. 1918, **11**, 221.
- exchange, Control of the, by heating and cooling the temperature centers. Barbour and Prince. 1914-15, **6**, 1.
- factor, in the production to adrenin pulmonary edema in the rabbit. Gates and Auer. (Proceedings) 1917, **9**, 361.
- frequency, The influence of morphine on normal cats and on cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and, and blood sugar content. Stewart and Rogoff. 1922, **19**, 97.
- frequency, The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and. Stewart and Rogoff. 1922, **19**, 87.
- mechanism, Reaction of, to chlorine gas. Schultz. (Proceedings) 1918, **11**, 180.
- mechanism, The effect of caffeine on the reaction to carbon dioxide of the normal human. Grabfield and Means. 1917-18, **10**, 159.
- stimulants, The action of, upon the respiration when depressed by increased intracranial pressure with special reference to sodium cyanide. Studies on stimulation of the respiration. Loevenhart, Malone and Martin. 1922, **19**, 13.
- tract, Some effects of adrenaline when injected into the. Auer and Gates. (Proceedings) 1914-15, **6**, 608.
- Retina, Effects of various drugs upon the-vessels of the pia mater and. Hirschfelder. (Proceedings) 1914-15, **6**, 597.

- Retractor penis muscle of the dog, Action on the. The point of attack of certain drugs on the periphery. II. Edmunds. 1920, **15**, 201.
- Rettig, F. A., Hyatt, E. G., and McGuigan, H. The action of chloral on the pupil. 1920, **15**, 415.
- Reycraft, R. L., Scott, R. W., and Hanzlik, P. J. Salicylate edema. (Proceedings) 1917, **9**, 348.
- Reynolds, C. and Plant, O. H. Effect of caffeine on intestinal movements. (Proceedings) 1922, **19**, 256.
- Rheumatic and non-rheumatic individuals, Excretion of salicyl in the urines of. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 129.
- and non-rheumatic individuals, Excretion of salicyl in the urines of. The salicylates. V. Hanzlik, Scott and Thoburn. 1917, **9**, 247.
- Rhododendron poisoning. Hardikar. 1923, **20**, 17.
- Richards, A. N. A note on the combined action of camphor and lack of oxygen upon the isolated mammalian heart, with an observation upon the direct action of lack of oxygen upon blood vessels. 1914-15, **6**, 73.
- , and Drinker, C. K. An apparatus for the perfusion of isolated organs. 1915, **7**, 467.
- , and Plant, O. H. Urine formation by the perfused kidney: preliminary experiments on the action of caffeine. 1915, **7**, 485.
- , and Wood, W. G. The action of strophanthine upon suprarenal secretion. 1914-15, **6**, 283.
- Rieger, J. B., and Salant, W. Caffeine tolerance. (Proceedings) 1910, **1**, 572.
- , and Salant, W. The elimination of caffeine. (Proceedings) 1911-12, **3**, 469.
- , and Salant, W. The elimination of creatine and creatinine after the administration of caffeine. (Proceedings) 1910-11, **2**, 400.
- , and Salant, W. The toxicity of caffeine. (Proceedings) 1911-12, **3**, 455.
- , and Salant, W. The toxicity of caffeine. (Proceedings) 1910, **1**, 572.
- Rigor, The effects of the digitalis group including anaphylaxis upon some skeletal muscles in rabbits, especially with regard to. Auer. (Proceedings) 1911-12, **3**, 464.
- Ringer, M., and Underhill, F. P. Studies on the physiological action of some protein derivatives. V. The relation of blood concentration to peptone shock. 1922, **19**, 163.
- , and Underhill, F. P. Studies on the physiological action of some protein derivatives. VI. The influence upon blood concentration of Vaughan's crude soluble poison. 1922, **19**, 179.
- Robertson, T. B., and Burnett, T. C. On the action of sodium citrate upon mammalia, with especial reference to acquired tolerance and to its action upon the cerebellum. 1911-12, **3**, 635.
- Robinson, G. C., and Wilson, F. N. A quantitative study of the effect of digitalis on the heart of the cat. 1917-18, **10**, 491.
- Roca, J. On the relative amounts of depressor and broncho-constrictor substance obtainable from the anterior and posterior lobes of the fresh pituitary gland. 1921, **18**, 1.
- , and Lamson, P. D. The liver as a blood concentrating organ. 1921, **17**, 481.

- Rockwood, E. M., and Ford, W. W. Mode of union between the amanitahaemolysin and its antihemolysin. 1912-13, **4**, 235.
- Rogers, F. T. On the stimulation of the vago-gastric medullary centers by drugs. (Proceedings) 1918, **11**, 171.
- Rogoff, J. M. A method for the standardization of thyroid preparations. 1917-18, **10**, 199.
- . Note on the preparation of a soluble concentrated product of the thyroid gland. 1919, **12**, 207.
- . The liberation of the internal secretion of the thyroid gland into the blood. 1919, **12**, 193.
- , Gibson, F. S., and Stewart, G. N. Liberation of epinephrine from the adrenal glands by stimulation of the splanchnic nerves and by massage. 1916, **8**, 205.
- , and Goldblatt, H. Attempt to detect thyroid secretion in blood obtained from the glands of individuals with exophthalmic goiter and other conditions involving the thyroid. 1921, **17**, 473.
- , and Marine, D. Absorption of potassium iodide by the thyroid gland in vivo, following its intravenous injection in constant amounts. 1916, **8**, 439.
- , and Marine, D. Attempts to produce a substance with thyroid-like activity by the artificial iodization of proteins. 1917-18, **10**, 321.
- , and Marine, D. Effect on tadpoles of feeding thyroid products obtained by alkaline hydrolysis. 1917, **9**, 57.
- , and Marine, D. How rapidly does the intact thyroid gland elaborate its specific iodine containing hormone? 1917, **9**, 1.
- , and Rosenberg, W. Feeding experiments on tadpoles: prostate gland and other substances. 1922, **19**, 353.
- , and Stewart, G. N. Action of certain drugs on the output of epinephrine from the adrenals. (Proceedings) 1919, **13**, 513.
- , and Stewart, G. N. Demonstration that the spontaneously liberated epinephrine can exert an action upon the heart. 1919, **13**, 397.
- , and Stewart, G. N. Further observations on ether hyperglycemia in the absence of the adrenals. (Proceedings) 1920, **15**, 238.
- , and Stewart, G. N. Quantitative experiments on the liberation of epinephrine from the adrenals after section of their nerves, with special reference to the question of the indispensability of epinephrine for the organism. 1917-18, **10**, 1.
- , and Stewart, G. N. Spontaneous liberation of epinephrine from the adrenals. 1916, **8**, 479.
- , and Stewart, G. N. The action of drugs upon the output of epinephrine from the adrenals. I. Strychnine. 1919, **13**, 95.
- , and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. II. Concentrated salt solutions (sodium carbonate) injected into the circulation. 1919, **13**, 167.
- , and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. III. Nicotine. 1919, **13**, 183.
- , and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. IV. Strophanthine. 1919, **13**, 361.

- Rogoff, J. M., and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. V. Curara. 1920, **14**, 343.
- , and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. VI. Atropine; pilocarpine. 1921, **16**, 71.
- , and Stewart, G. N. The action of drugs upon the output of epinephrine from the adrenals. VII. Physostigmine. 1921, **17**, 227.
- , and Stewart, G. N. The action of drugs on the output of epinephrine from the adrenals. VIII. Morphine. 1922, **19**, 59.
- , and Stewart, G. N. The influence of asphyxia upon the rate of liberation of epinephrine from the adrenals. 1917-18, **10**, 49.
- , and Stewart, G. N. The influence of morphine on normal cats and on cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and respiratory frequency and blood sugar content. 1922, **19**, 97.
- , and Stewart, G. N. The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and respiratory frequency. 1922, **19**, 87.
- , and Stewart, G. N. The proportion in which adrenaline distributes itself between corpuscles and serum in relation to the technique of testing for epinephrine in blood. 1917, **9**, 393.
- Rosenberg, W., and Rogoff, J. M. Feeding experiments on tadpoles: prostate gland and other substances. 1922, **19**, 353.
- Rosenthal, S. M. An improved method for using phenoltetrachlorophthalein as a liver function test. 1922, **19**, 385.
- Ross, E. L. Effect of atropine on chloroform hyperglycemia. 1920, **15**, 135.
- , Effect of atropine on ether hyperglycemia. 1919, **12**, 377.
- , and Davis, L. H. Effect of adrenaline and extracts of pancreas and liver on blood dextrose. 1923, **20**, 121.
- , and Davis, L. H. The source of blood serum diastases. (Proceedings) 1921, **17**, 347.
- , and McGuigan, H. The similarity and synergy of morphine and strychnine action. 1915, **7**, 385.
- Roth, G. B. A new standard for the determination of the strength of pituitary extracts. 1913-14, **5**, 559.
- , Action of quinine on the leucocytes. 1912-13, **4**, 157.
- , An experimental study of camphoric acid. 1910-11, **2**, 405.
- , Pharmacologic studies with cocaine and novocaine. (Proceedings) 1917, **9**, 352.
- , The action of quinine on leucocytes. (Proceedings) 1911-12, **3**, 470.
- , The several factors involved in the standardization of pituitary extracts. (Proceedings) 1914-15, **6**, 596.
- , The physiological assay of aconite. (Proceedings) 1912-13, **4**, 349.
- , and Edmunds, C. W. The point of attack of certain drugs acting on the periphery. I. Action on the bladder. 1920, **15**, 189.
- , and Voegtlin, C. Effects of the prolonged feeding of aluminium salts. (Proceedings) 1916, **8**, 132.

- Rouiller, C. A., and Abel, J. J. Evaluation of the hormone of the infundibulum of the pituitary gland in terms of histamine, with experiments on the action of repeated injections of the hormone on the blood pressure. 1923, **20**, 65.
- Rowe, L. W. Trichlor-tertiarybutyl alcohol anesthesia. 1917, **9**, 107.
- Rowntree, L. G. Note concerning the laxative properties of the tribasic salts of phenolphthalic acid. 1910-11, **2**, 469.
- , and Abel, J. J. Further data relating to the use of antimony-thioglycollic acid compounds in the treatment of experimental trypanosomiasis. (Proceedings) 1910-11, **2**, 396.
- , and Abel, J. J. Further data relating to the use of certain antimonial compounds in the treatment of experimental trypanosomiasis. 1910-11, **2**, 501.
- , and Abel, J. J. On the behavior of certain arsenical, antimony and other compounds in the treatment of experimental nagana. (Proceedings) 1910, **1**, 577.
- , and Abel, J. J. On the efficacy of antimony-thioglycollic acid compounds in the treatment of experimental trypanosomiasis. 1910-11, **2**, 101.
- , and Abel, J. J. On the pharmacological action of some phthaleins and their derivatives, with especial reference to their behavior as purgatives: I. 1910, **1**, 231.
- , Abel, J. J., and Turner, B. B. On the removal of diffusible substances from circulating blood of living animals by dialysis. 1913-14, **5**, 275.
- , Abel, J. J., and Turner, B. B. On the removal of diffusible substances from the circulating blood of living animals by dialysis. II. Some constituents of the blood. 1913-14, **5**, 611.
- , Abel, J. J., and Turner, B. B. Plasma removal with return of corpuscles. (plasmapheresis) 1913-14, **5**, 625.
- , and Dandy, W. E. Peritoneal and pleural absorption. (Proceedings) 1911-12, **3**, 460.
- , and Fitz, R. Renal function in experimental passive congestion. (Proceedings) 1912-13, **4**, 349.
- , and Fitz, R. Studies of renal function in experimental nephritides. (Proceedings) 1911-12, **3**, 460.
- , and Fitz, R. The effect of temporary occlusion of renal circulation on renal function. (Proceedings) 1912-13, **4**, 349.
- , and Geraghty, J. T. An experimental and clinical study of the functional activity of the kidneys by means of phenolsulphonephthalein. 1910, **1**, 579.
- , and Geraghty, J. G. Further data relating to the value of phenolsulphonephthalein in estimating the functional capacity of the kidney. (Proceedings) 1910-11, **2**, 393.
- , and Geraghty, J. T. Intramuscular versus subcutaneous absorption. (Proceedings) 1911-12, **3**, 460.
- , and Geraghty, J. T. On the use of phenolsulphonephthalein in estimating the function of the kidneys. (Proceedings) 1910, **1**, 576.
- , Larson, E. E., and Weir, J. F. Clinical and experimental studies in diabetes insipidus. (Proceedings) 1921, **17**, 333.
- , and Levy, R. L. Toxicity of various commercial preparations of emetine hydrochloride. (Proceedings) 1916, **8**, 120.

- Rumry, F. L. The action of yohimbine on reproductivity. (Proceedings) 1918, **11**, 172.
- , and Jensen, V. Straub's biologic test for opium alkaloids. (Proceedings) 1918, **11**, 178.
- Ryan, A. H. An improved lever for frog's heart and muscle strips. (Proceedings) 1917, **9**, 362.
- , Studies in absorption of drugs from the gastric mucous membrane: I. Strychnine nitrate. 1912-13, **4**, 43.
- , Guthrie, C. C., and Guthrie, F. V. On insufflation of the lungs with hydrogen; with carbon dioxide; and with air. 1910-11, **2**, 49.
- , and McGuigan, H. The site of action of strychnine in the spinal cord. 1910-11, **2**, 319.
- Rypins, H., and Ulrich, H. L. A note on adrenaline hyperglycemia in man. 1922, **19**, 215.
- Saccharin, The influence of, on the catalases of the blood. Becht. 1921, **16**, 155.
- Sacral autonomies, Action of drugs affecting the. On the pharmacology of the ureter. II. Macht. 1916, **8**, 261.
- Salant, William. Further observations on the action of caffeine on the circulation. (Proceedings) 1912-13, **4**, 341.
- , The effect of caffeine on the circulation. (Proceedings) 1911-12, **3**, 468.
- , The influence of temperature on the toxicity of caffeine. (Proceedings) 1912-13, **4**, 342.
- , The pharmacology of oil of chenopodium. (Proceedings) 1910-11, **2**, 391.
- , and Battle. The influence of the oil of chenopodium on the heart of the turtle. (Proceedings) 1921, **17**, 331.
- , and Bengis, Robert. Absorption and elimination of different dyes. (Proceedings) 1916, **8**, 119.
- , and Bengis, Robert. The action of fluorescein and its derivatives. (Proceedings) 1917, **9**, 344.
- , and Bengis, Robert. The production of renal changes by oil of chenopodium and fatty oils, and the protective action of diet on the kidney. 1917, **9**, 529.
- , and Bengis, Robert. The protective action of diet against renal irritants. (Proceedings) 1917, **9**, 344.
- , and Connet, Helene. Some observations on the action of an isomer of caffeine. 1918, **11**, 81.
- , and Connet, Helene. The influence of heavy metals on the isolated frog heart. 1920, **15**, 217.
- , and Connet, Helene. The influence of heavy metals on the isolated heart. (Proceedings) 1920, **15**, 245.
- , and Hecht, Selig. Further observations on the action of ergot. (Proceedings) 1913-14, **5**, 517.
- , and Hinkel, F. C. The influence of alcohol on the composition of urine. 1910, **1**, 493.
- , and Hinkel, F. C. The influence of alcohol on the composition of urine. (Proceedings) 1910, **1**, 574.
- , and Kahn, Max. Further observations on caffeine glycosuria. (Proceedings) 1913-14, **5**, 512.

- Salant, William, and Kahn, Max. Production of glycosuria by zinc. (Proceedings) 1913-14, **5**, 512.
- , and Kleitman, Nathaniel. Experiments with aconitine and barium on the isolated heart. (Proceedings) 1922, **19**, 257.
- , and Kleitman, N. Further observations on the action of heavy metals. (Proceedings) 1921, **17**, 332.
- , and Kleitman, Nathaniel. Further studies on the action of mercury. (Proceedings) 1922, **19**, 253.
- , and Kleitman, Nathaniel. Pharmacological studies on acetone. 1922, **19**, 293.
- , and Kleitman, Nathaniel. Some observations on the action of mercury. 1922, **19**, 315.
- , and Kleitman, Nathaniel. Studies on the action of barium. 1923, **20**, 247.
- , and Kleitman, Nathaniel. Studies on the pharmacology of sodium citrate. I. The influence of sodium citrate on respiration and circulation. 1923, **20**, 481.
- , and Kleitman, Nathaniel. The pharmacology of citrates. (Proceedings) 1922, **19**, 254.
- , and Kleitman, Nathaniel. The toxicity of skatol. 1922, **19**, 307.
- , and Livingston, A. E. Further studies on the pharmacological action of oil of chenopodium. (Proceedings) 1916, **8**, 122.
- , and Livingston, A. E. Influence of iodine on the heart. (Proceedings) 1916, **8**, 119.
- , and Livingston, A. E. The action of succinate and its derivatives. (Proceedings) 1917, **9**, 344.
- , Livingston, A. E., and Connet, Helene. Experiments with succinate and its hydroxy derivatives on the isolated frog heart. 1917-18, **10**, 129.
- , Mitchell, C. W., and Schwartze, E. W. The action of succinate and its derivatives on the isolated intestine. 1917, **9**, 511.
- , and Phelps, I. K. Demethylation of caffeine and theobromine under pathological conditions. (Proceedings) 1911-12, **3**, 469.
- , and Phelps, I. K. The influence of caffeine on protein metabolism in dogs, with some remarks on demethylation in the body. (Proceedings) 1910-11, **2**, 401.
- , and Rieger, J. B. Caffeine tolerance. (Proceedings) 1910, **1**, 572.
- , and Rieger, J. B. The elimination of caffeine. (Proceedings) 1911-12, **3**, 469.
- , and Rieger, J. B. The elimination of creatine and creatinine after the administration of caffeine. (Proceedings) 1910-11, **2**, 400.
- , and Rieger, J. B. The toxicity of caffeine. (Proceedings) 1910, **1**, 572.
- , and Rieger, J. B. The toxicity of caffeine. (Proceedings) 1911-12, **3**, 455.
- , and Schwartze, E. W. The action of sodium citrate on the isolated intestine. 1917, **9**, 497.
- , and Smith, C. S. The influence of sodium tartrate on the circulation. (Proceedings) 1913-14, **5**, 515.
- , and Smith C. S. The toxicity of tin. (Proceedings) 1913-14, **5**, 517.

- Salant, William, and Swanson, A. M. Observations on the action of tartrates, citrates and oxalates. A study in tolerance, cumulation and the effect of diet. 1918, **11**, 133.
- , and Swanson, A. M. Studies on tolerance and cumulation. Experiments with tartrate, citrate and oxalate. (Proceedings) 1917, **9**, 353.
- , and Swanson, A. M. The influence of diet on the toxicity of sodium tartrate. 1918, **11**, 27.
- , and Swanson, A. M. The protective action of diet against tartrate nephritis. 1918, **11**, 43.
- , and Wise, Louis E. Fate of sodium citrate in the body. (Proceedings) 1916, **8**, 123.
- Salicyl, Excretion of, in the urines of rheumatic and non-rheumatic individuals. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 129.
- , Excretion of, in the urines of rheumatic and non-rheumatic individuals. The Salicylates. V. Hanzlik, Scott and Thoburn. 1917, **9**, 247.
- group under biological conditions, The stability and destruction of. The Salicylates. XI. Hanzlik and Wetzel. 1920, **14**, 25.
- in blood and joint fluid of individuals receiving full therapeutic doses of salicylate. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 130.
- , The excretion of, after the administration of methyl salicylate to animals. The salicylates. XII. Hanzlik and Wetzel. 1920, **14**, 43.
- , Urinary excretion of, after the administration of salicylates and salicyl esters. Hanzlik, De Eds and Presho. (Proceedings) 1922, **19**, 248.
- urines, The question of salicyluric acid in. The salicylates. IX. Hanzlik. 1917-18, **10**, 461.
- Salicylate edema. Scott, Reyecraft and Hanzlik. (Proceedings) 1917, **9**, 348.
- , Excretion of, in various clinical conditions. Scott, Thoburn and Hanzlik. (Proceedings) 1917, **9**, 347.
- , Further observations on albuminuria and renal function following the administration of full therapeutic doses of. Scott, Thoburn and Hanzlik. (Proceedings) 1917, **9**, 349.
- , Influence of, on metabolism in man. Denis and Means. 1916, **8**, 273.
- , Liberation of free salicylic acid from, in the circulation. Hanzlik. (Proceedings) 1921, **17**, 329.
- , Salicyl in blood and joint fluid of individuals receiving full therapeutic doses of. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 130.
- , The liberation of free salicylic acid from, in the circulation. The salicylates. XIII. Hanzlik. 1921, **17**, 385.
- Salicylates. IV. Salicylate in the blood and joint fluid of individuals receiving full therapeutic doses of the drug. Scott, Thoburn and Hanzlik. 1917, **9**, 217.
- , V. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. Hanzlik, Scott and Thoburn. 1917, **9**, 247.
- , IX. The question of salicyluric acid in salicyl urines. Hanzlik. 1917-18, **10**, 461.
- , XI. The stability and destruction of the salicyl group under biologic conditions. Hanzlik and Wetzel. 1920, **14**, 25.
- , XII. The excretion of salicyl after the administration of methyl salicylate to animals. Hanzlik and Wetzel. 1920, **14**, 43.

- Salicylates. XIII. The liberation of free salicylic acid from salicylate in the circulation. Hanzlik. 1921, **17**, 385.
- , The action of, on the uterus. Gunn and Goldberg. 1922, **19**, 207.
- , The influence of, on the elimination of uric acid and other waste products from the blood. Denis. 1915, **7**, 255.
- , "Toxic dose" of the, according to clinical statistics. Hanzlik. (Proceedings) 1912-13, **4**, 346.
- , Urinary excretion of salicyl after the administration of, and salicyl esters. Hanzlik, De Eds and Prescho. (Proceedings) 1922, **19**, 248.
- Salicylic acid, Liberation of free, from salicylate in the circulation. Hanzlik (Proceedings) 1921, **17**, 329.
- acid, The liberation of free, from salicylate in the circulation. The salicylates. XIII. Hanzlik. 1921, **17**, 385.
- Salicyluric acid. Hanzlik. (Proceedings) 1916, **8**, 130.
- acid in salicyl urines, The question of. The Salicylates. IX. Hanzlik. 1917-18, **10**, 461.
- Saligenin and other phenyl carbinols, The local anesthetic action of. Hirschfelder, Lundholm and Norrgard. (Proceedings) 1920, **15**, 237.
- and other phenyl carbinols, The local anesthetic actions of. Hirschfelder, Lundholm and Norrgard. 1920, **15**, 261.
- , Further studies on, its mercury derivative and allied compounds. Hirschfelder, Hart and Kucera. (Proceedings) 1921, **17**, 325.
- Saline perfusion of the respiratory center in frogs: the effect of calcium chloride and potassium chloride. Hooker. 1912-13, **4**, 443.
- Saliva, The effects of pilocarpine and atropine upon the amylolytic power and composition of the. Ewing. 1911-12, **3**, 1.
- Salivary secretion, The action of drugs on the. Henderson. 1910-11, **2**, 1.
- Salt solutions (sodium carbonate) concentrated, injected into the circulation. The action of drugs on the output of epinephrine from the adrenals. II. Stewart and Rogoff. 1919, **13**, 167.
- Salts, On the influence of various, upon tetany following parathyroidectomy. Voegtlin and MacCallum. 1910-11, **2**, 421.
- , Studies upon the action of certain, on the isolated intestines. Tyrode. (Proceedings) 1910, **1**, 570.
- Salvarsan, The toxicity of neosalvarsan and. Pearce and Brown. (Proceedings) 1917, **9**, 354.
- Sandiford, I., and Boothby, W. M. The calibration of the Waller gas balance and the Connell anethetometer. 1913-14, **5**, 369.
- Sapo-glucoside, The chemical and pharmacological properties of herderin, a, contained in the leaves of common ivy (*hedera helix*). Moore. 1912-13, **4**, 263.
- Saponin solutions, The relation of their surface tension to their hemolytic activity. Woodward and Alsberg. (Proceedings) 1916, **8**, 109.
- , Studies upon the long continued feeding of. Alsberg and Smith. (Proceedings) 1913-14, **5**, 517.
- Saponins, A comparison of the effect of certain, on the surface tension of water with their hemolytic power. Woodward and Alsberg. 1921, **16**, 237.
- Satani, Y., and Macht, D. I. A study of local anesthetics in respect to their antiseptic properties. (Proceedings) 1920, **15**, 244.

- Sauer, L. W., Mattill, P. M., and Mayer, Katherine. The influence of intravenous injections of acacia-glucose solutions on urine excretion and blood volume in rabbits. 1921, **16**, 391.
- Scalds and burns, The application of a concentrated solution of magnesium sulphate to. Meltzer. 1919, **12**, 211.
- Scarborough, E. M. A comparison of the action of certain drugs upon muscular work in frogs. 1921, **17**, 129.
- Schettler, O. H., Sollmann, Torald, and Wetzel, N. C. Studies of chronic intoxications on albino rats. I. Organization of the investigations. 1921, **16**, 273.
- , Sollmann, Torald, and Wetzel, N. C. Studies of chronic intoxications on albino rats. IV. Fluoride, chloride and calcium, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). 1921, **17**, 197.
- Schlomovitz, B. H., and Chase, C. S. A signal-magnet controller. 1914-15, **6**, 561.
- , and Chase, C. S. Influence of temperature on the onset of strychnine convulsions in the intact frog. (Proceedings) 1916, **8**, 127.
- , Loevenhart, A. S., and Seybold, E. G. The determination of the circulation time in animals and man. (Proceedings) 1920, **15**, 246.
- , Loevenhart, A. S., and Seybold, E. G. The determination of the circulation time in rabbits and dogs and its relation to the reaction time of the respiration to sodium cyanide. 1922, **19**, 221.
- , and Seybold, E. G. Observations on the toxicity of acetone administered intravenously. (Proceedings) 1920, **15**, 234.
- , Seybold, E. G., and Loevenhart, A. S. The determination of the circulation time in dogs and rabbits and its relation to the reaction time of the respiratory center to sodium cyanide. (Proceedings) 1921, **17**, 345.
- Schmidt, C. F., and Harer, W. B. The action of certain drugs on respiration. (Proceedings) 1922, **19**, 269.
- Schroeder, W. F., Weiland, A. H., Luckhardt, A. B., and Koch, F. C. The physiological action of the fumes of iodine. 1920, **15**, 1.
- Schultz, W. H. A quantitative study of the toxicity of phenol derivatives for stronglylid larvae. (Proceedings) 1922, **19**, 262.
- , Experimental criticism of recent results in testing adrenaline. 1910, **1**, 291.
- , Physiological studies in anaphylaxis: I. The reaction of smooth muscle of the guinea-pig sensitized with horse serum. 1910, **1**, 549.
- , Physiological studies in anaphylaxis. II. Reaction of smooth muscle from guinea-pigs rendered tolerant to large doses of serum. 1910-11, **2**, 221.
- , Physiological studies in anaphylaxis. IV. Reaction of the cat toward horse serum. 1911-12, **3**, 299.
- , The influence of various solvents upon the toxicity of thymol. (Proceedings) 1914-15, **6**, 590.
- , The reaction of hook-worm larvae to various chemicals. (Proceedings) 1914-15, **6**, 599.
- , The reaction of the heart toward chlorine. (Proceedings) 1918, **11**, 179.

- Schultz, W. H. The reaction of the respiratory mechanism to chlorine gas. (Proceedings) 1918, **11**, 180.
- , and Gibson, R. B. The pharmacologic action of certain protein cleavage products upon the heart. 1910, **1**, 469.
- , and Hunt, H. R. Some pathological phenomena following inhalation of chlorine gas. (Proceedings) 1918, **11**, 181.
- , and Jordan, H. E. Physiological studies in anaphylaxis. III. A microscopic study of the anaphylactic lung of the guinea-pig and mouse. 1910-11, **2**, 375.
- Schwartz, E. W. A transparent celluloid renal oncometer or plethysmograph. 1919, **12**, 215.
- , Functional evidence of the phylogeny of the nervous system as shown by the behavior and resistance of the developing rat to strychnine. 1922, **19**, 273.
- , Observations upon the intraperitoneal injection of fixed oil as a vehicle for administering fat soluble substances. (Proceedings) 1920, **15**, 240.
- , Observations upon the resistance of the rat to consecutive injections of strychnine. 1922, **19**, 49.
- , Some observations upon the behavior of a fixed oil (peanut oil) injected peritoneally. 1921, **17**, 115.
- , The significance of the marked variations in the toxicity of undissolved arsenious oxide. (Proceedings) 1922, **19**, 258.
- , The so-called habituation to "arsenic": variation in the toxicity of arsenious oxide. 1923, **20**, 181.
- , The toxicity of strychnine for Genus Mus, together with a note on its possible biological and neurological significance. (Proceedings) 1920, **15**, 235.
- , The toxicity of strychnine for the brown bat (*Myotis fuscus*). (Proceedings) 1921, **17**, 344.
- , and Alsberg, C. L. Pharmacological action of cadmium. (Proceedings) 1919, **13**, 504.
- , and Alsberg, C. L. Pharmacological action of gossypol. (Proceedings) 1919, **3**, 504.
- , and Alsberg, C. L. The comparative toxicity and physiological activity of cadmium and zinc. (Proceedings) 1920, **15**, 235.
- , and Alsberg, C. L. The relation of cottonseed poisoning to gossypol. (Proceedings) 1921, **17**, 344.
- , and Munch, J. C. Studies in the toxicity of aliphatic alcohols. (Proceedings) 1922, **19**, 252.
- , and Salant, William. The action of sodium citrate on the isolated intestine. 1917, **9**, 497.
- , Salant, William, and Mitchell, C. W. The action of succinate on the isolated intestine. 1917, **9**, 511.
- Sciatic nerve of the frog, Direct application to the. Comparative activity of local anesthetics. I. Paralysis of motor nerve fibers. Sollmann. 1917-18, **10**, 379.
- Scopolamine and morphine, Action upon the intact uterus. Barbour. 1915, **7**, 547.
- and morphine, The response of the surviving uterus to. Barbour and Copenhaver. 1915, **7**, 529.

- Scopolamine-morphine narcosis. Storm van Leeuwen and von Szent-Györgyi. 1921, **18**, 449.
- Scopolamines, The synergism of morphine and the. Smith. 1915, **7**, 407.
- Scorpion, An experimental study of the venom of the Manchurian. Kubota. 1918, **11**, 379.
- , On the toxicity of the venom of the Mexican (Durango), as compared with that of the Chinese scorpion. Kubota. 1918, **11**, 447.
- Scott, J. C., and Ott, Isaac. The action of glandular extracts upon the amount of epinephrine in the blood. 1911-12, **3**, 625.
- Scott, R. W. Clinical observations on quinidine. (Proceedings) 1922, **19**, 264.
- , Clinical observations on the absorbability of purified tincture of digitalis. (Proceedings) 1921, **17**, 343.
- , Reycraft, J. L., and Hanzlik, P. J. Salicylate edema. (Proceedings) 1917, **9**, 348.
- , Hanzlik, P. J., and Thoburn, T. W. The salicylates. V. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. 1917, **9**, 247.
- , and Stewart, G. N. Studies on the circulation in man. XIV. The change produced in the blood flow (in the hands) under the influence of digitalis in cases of auricular fibrillation. 1915, **7**, 263.
- , Thoburn, T. W., and Hanzlik, P. J. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. (Proceedings) 1916, **8**, 129.
- , Thoburn, T. W., and Hanzlik, P. J. Excretion of salicylate in various clinical conditions. (Proceedings) 1917, **9**, 347.
- , Thoburn, T. W., and Hanzlik, P. J. Further observations on albuminuria and renal function following the administration of full therapeutic doses of salicylate. (Proceedings) 1917, **9**, 349.
- , Thoburn, T. W., and Hanzlik, P. J. Salicyl in blood and joint fluid of individuals receiving full therapeutic doses of salicylate. (Proceedings) 1916, **8**, 130.
- , Thoburn, T. W. and Hanzlik, P. J. The salicylates. IV. Salicylate in the blood and joint fluid of individuals receiving full therapeutic doses of the drug. 1917, **9**, 217.
- Secretine, A comparison of the influence of, and the antineuritic vitamine on pancreatic secretion and bile flow. Voegtlin and Myers. 1919, **13**, 301.
- Sedative properties, Experimental inquiry into the, of some aromatic drugs and fumes. Macht and Ting. 1921, **18**, 361.
- Sedatives, Studies on the influence of, on animals. I. A method for measuring the influence of stimulating drugs and of sedatives on the activity of animals (activitymeter). Storm van Leeuwen. 1921, **17**, 169.
- Seidell, Atherton, and Hunt, Reid. Thyreotropic iodine compounds. 1910-11, **2**, 15.
- Sellards, A. W., and McIver, M. A. The treatment of amoebic dysentery with chaparro arnagosa (*Castela Nicholsoni* of the family Simarubaceae). 1918, **11**, 331.
- Seminal vesicles, The pharmacology of the. Waddell. 1917, **9**, 113.
- Senecio alkaloids, On the action of, and the causation of the hepatic cirrhosis of cattle (Pistou, Molteno, or Winton disease). Cushny. 1910-11, **2**, 531.

- "Senso," the dried venom of the Chinese toad, Pharmacological and chemical studies on. Schimizu. 1916, **8**, 347.
- Sensory nerve fibers, Paralysis of. Comparative activity of local anesthetics. II. Sollmann. 1918, **11**, 1.
- nerve terminals, Effect on the. On the peripheral action of the opium alkaloids. Macht, Johnson and Bollinger. 1916, **8**, 451.
- threshold, Influence of drugs on the human. Martin, Grace and McGuire. 1914-15, **6**, 527.
- thresholds, Effect of tobacco smoking on human. Mendenhall. (Proceedings) 1921, **17**, 333.
- Septicemia, The influence of morphine in experimental. The action of drugs in infection. I. Kraft and Leitch. 1921, **17**, 377.
- Serum, On the destruction of epinephrine and constrictor substances of, by oxygenation in the presence of blood vessel walls. Tatum. 1912-13, **4**, 151.
- , Reaction of smooth muscle from guinea-pigs rendered tolerant to large doses of. Physiological studies in anaphylaxis. II. Schultz. 1910-11, **2**, 221.
- , Reaction of the cat toward horse. Physiological studies in anaphylaxis. IV. Schultz. 1911-12, **3**, 299.
- , The action of, on the perfused heart of the rabbit. Cushny and Gunn. 1913-14, **5**, 1.
- , The antitoxic action of rattlesnake serum on rattlesnake venom with a note on the percentage of total solids of the bile and. Welker and Marshall. 1915, **7**, 125.
- , The effect of surplus cow, upon complement fixation with infectious abortion. Surface. (Proceedings) 1912-13, **4**, 352.
- , The reaction of smooth muscle of the guinea-pig sensitized with horse. Physiological studies in anaphylaxis. I. Schultz. 1910, **1**, 549.
- , Vaso-constrictive action of, on the coronary vessels of the mammalian heart. Yanagawa. 1916, **8**, 89.
- Seybold, E. G., Loevenhart, A. S., and Schlomovitz, B. H. The determination of the circulation time in animals and man. (Proceedings) 1920, **15**, 246.
- , Loevenhart, A. S., and Schlomovitz, B. H. The determination of the circulation time in dogs and rabbits and its relation to the reaction time of the respiratory center to sodium cyanide. (Proceedings) 1921, **17**, 345.
- , Loevenhart, A. S., and Schlomovitz, B. H. The determination of the circulation time in rabbits and dogs and its relation to the reaction time of the respiration to sodium cyanide. 1922, **19**, 221.
- , and Schlomovitz, B. H. Observations on the toxicity of acetone administered intravenously. (Proceedings) 1920, **15**, 234.
- Seymour, R. J., Brooks, C., and McPeck, C. The action of epinephrine on vasomotors and heart beats studied separately by the artificial control of blood pressure by means of the compensator. (Proceedings) 1918, **11**, 168.
- Sherrick, J. L., and Ford, W. W. Further observations on fungi, particularly *clitocybe sudorifica* Peck, *pholiota autumnalis* Peck, and *inocybe decipiens* Bresadola. 1912-13, **4**, 321.
- , and Ford, W. W. On the properties of several species of the polyporaceae and of a new variety of *clitocybe*, *Clitocybe dealbata sudorifica*, Peck. 1910-11, **2**, 549.

- Shimizu, Shigematsu. Pharmacological and chemical studies on "senso," the dried venom of the Chinese toad. 1916, **8**, 347.
- Shock, A comparison of the prophylactic effects of atropine and epinephrine in anaphylactic, and anaphylactoid phenomena from various colloids and arsphenamine. Hanzlik and Karsner. 1920, **14**, 425.
- , A study of the action of the heart in anaphylactic, in the dog. Eisenbrey and Pearce. 1912-13, **4**, 21.
- , Anaphylatoxin and the chemical theory of anaphylactic. Weil. (Proceedings) 1916, **8**, 112.
- , The liver in its relation to anaphylactic. Voegtlin and Bernheim. 1910-11, **2**, 507.
- , The relation of blood concentration to peptone. Studies on the physiological action of some protein derivatives. V. Underhill and Ringer. 1922, **19**, 163.
- Shohl, A. T., and Macht, D. I. The stability of benzyl alcohol solutions. 1921, **16**, 61.
- Signal-magnet controller. Chase and Schlomovitz. 1914-15, **6**, 561.
- Signal magnet which writes either upwards or downwards. Hale. (Proceedings) 1917, **9**, 362.
- Silver arsphenamine sodium, On the therapeutic efficiency of. Dyer and Voegtlin. (Proceedings) 1921, **17**, 329.
- salvarsan, A note on the action of. Jackson and Lawrence. (Proceedings) 1922, **19**, 265.
- Sino-auricular muscle preparation, Tonus waves from the, of the terrapin as affected by adrenaline. Gruber and Markel. 1919, **12**, 43.
- Skatol, The toxicity of. Salant and Kleitman. 1922, **19**, 307.
- Skin, Anesthesia of frog. Comparison of activity of local anesthetics. III. Sollmann. 1918, **11**, 9.
- , Anesthesia of the human. General conclusions. Comparative efficiency of local anesthetics. V. Sollmann. 1918, **11**, 69.
- , Iodine absorption from the human. Wetzel and Sollmann. 1920, **15**, 169.
- irritant effect, The toxicity and, of certain derivatives of dichloroethyl sulfide. Marshall and Williams. 1921, **16**, 259.
- irritant, Parazol as a. Livingston. (Proceedings) 1919, **13**, 507.
- irritant properties of dichlorethylsulphide (mustard gas) and other agents, The comparative. Hanzlik and Tarr. 1920, **14**, 221.
- lesions, The influence of solvents, adsorbents and chemical antidotes on the severity of human. Dichlorethylsulphide (mustard gas). I. Sollmann. 1919, **12**, 303.
- , On decreasing the reaction of normal, to destructive doses of x-rays by pharmacological means, and on the mechanism involved. Auer and Witherbee. (Proceedings) 1921, **17**, 337.
- or mucous membrane, An apparatus for the exposure of, to the vapor of toxic substances, with observations on dichlorethylsulphide. Eyster and Maver. 1920, **15**, 95.
- , The mechanism of absorption by the. On dichlorethylsulphide (mustard gas). IV. Smith, Clowes and Marshall. 1919, **13**, 1.
- , The question of induced hypersusceptibility of the. Dichlorethylsulphide (mustard gas). II. Sollmann. 1919, **12**, 319.

- Skin, Variations in susceptibility of the, to dichlorethylsulphide. On dichlorethylsulphide (mustard gas). II. Marshall, Lynch and Smith. 1919, **12**, 291.
- Slagle, E. A. A practical method for the preparation of phenolsulphonophthaloin. 1910, **1**, 662.
- Sloan, L. H., McGuigan, Hugh, and Keeton, R. W. The segmental action of strychnine. 1916, **8**, 143.
- Smith, C. S., and Alsberg, C. L. Studies upon the long continued feeding of saponin. (Proceedings) 1913-14, **5**, 517.
- and Salant, William. The influence of sodium tartrate on the circulation. (Proceedings) 1913-14, **5**, 515.
- , and Salant, William. The toxicity of tin. (Proceedings) 1913-14, **5**, 517.
- Smith, H. W., Clowes, G. H. A., and Marshall, E. K., Jr. On dichloroethylsulphide (mustard gas). IV. The mechanism of absorption by the skin. 1919, **13**, 1.
- , Marshall, E. K., Jr., and Lynch, Vernon. On dichlorethylsulphide (mustard gas). I. The systemic effects and mechanism of action. 1919, **12**, 265.
- , Marshall, E. K., Jr., and Lynch, Vernon. On dichlorethylsulphide (mustard gas). II. Variations in susceptibility of the skin to dichlorethylsulphide. 1919, **12**, 291.
- and Voegtlin, Carl. Quantitative studies in chemotherapy. (Proceedings) 1920, **15**, 233.
- , and Voegtlin, Carl. Quantitative studies in chemotherapy. I. The trypanocidal action of antimony compounds. 1920, **15**, 453.
- , and Voegtlin, Carl. Quantitative studies in chemotherapy. II. The trypanocidal action of arsenic compounds. 1920, **15**, 475.
- , and Voegtlin, Carl. Quantitative studies in chemotherapy. III. The oxidation of arsphenamine. 1921, **16**, 199.
- , and Voegtlin, Carl. Quantitative studies in chemotherapy. IV. The relative therapeutic value of arsphenamine and neoarsphenamine of different manufacture. 1921, **16**, 449.
- , and Voegtlin, Carl. Quantitative studies in chemotherapy. V. Intravenous versus intramuscular administration of arsphenamine. Curative power and minimum effective dose. 1921, **17**, 357.
- Smith, M. I. An investigation into the chemotherapy of the acridine dyes in experimental tuberculosis. 1923, **20**, 419.
- , Further pharmacologic studies on arsphenamine. 1920, **15**, 279.
- , The action of strychnine in cardiac arrhythmias. (Proceedings) 1917, **9**, 344.
- , The action of strychnine in certain types of cardiac irregularities. 1917, **9**, 365.
- , The synergism of morphine and the scopolamines. 1915, **7**, 407.
- , and Edmunds, C. W. Further studies in nicotine tolerance. (Proceedings) 1916, **8**, 131.
- , and Fantus, Bernard. An experimental study of the action of chloramines. 1920, **14**, 259.
- , and Fantus, Bernard. The comparative pharmacologic action of ethylhydrocuprein (optochin) and quinine. 1916, **8**, 53.
- , and Hatcher, R. A. A contribution to the pharmacology of stovaine. 1917, **9**, 231.

- Smith, M. I., and Hatcher, Robert A. The elimination of strychnine by the kidneys. 1917, **9**, 27.
- , and Jackson, D. E. An experimental investigation of the cause of early death from arsphenamine, and of certain other features of the pharmacological action of the substance. 1919, **12**, 221.
- , and Voegtlin, Carl. A method for the study of the permeability of meninges for arsenicals. (Proceedings) 1921, **17**, 342.
- Smooth muscle contracting, The relation between the blood coagulating and, properties of tissue extracts. Mills, Raap and Jackson. (Proceedings) 1921, **17**, 341.
- muscle, Effects of chelidonine on. Hanzlik. 1915, **7**, 99.
- muscle from guinea-pigs rendered tolerant to large doses of serum, Reaction of. Physiological studies in anaphylaxis. II. Schultz. 1910-11, **2**, 221.
- muscle, On the relation between the chemical structure of the opium alkaloids and their physiological action on, with a pharmacological and therapeutic study of some benzyl esters. II. A pharmacological and therapeutic study of some benzyl esters. Macht. 1918, **11**, 419.
- muscle structures, On the relation of the chemical structure of opium alkaloids to their action on. Macht. (Proceedings) 1918, **11**, 176.
- muscle, On the relation of the chemical structure of the opium alkaloids to their action on. On the relation between the chemical structure of the opium alkaloids and their physiological action on smooth muscle with a pharmacological and therapeutic study of some benzyl esters. I. Macht. 1918, **11**, 389.
- muscle, The action of the bromides on. The rôle of the bromide salts on rhythmically contracting organs. II. Kruse. 1920, **14**, 149.
- muscle, The anaphylactic reaction of, in the guinea-pig. Dale. 1912-13, **4**, 167.
- muscle, The effect of varying tonicity on the anaphylactic and other reactions of. Dale. 1912-13, **4**, 517.
- muscle, and tonus, On the relation between, in the terrapin heart. Snyder and Andrus. 1920, **14**, 1.
- Snake's heart, Pharmacology of the. Clark. 1912-13, **4**, 425.
- Snowden, R. R., Arbuthnot, T. S., and Brooks, Clyde. A study of the excretion of repeated doses of phenolsulphonaphthalein. (Proceedings) 1917, **9**, 349.
- Snyder, C. D., and Andrus, E. C. On the relation between tonus and smooth muscle in the terrapin heart. 1920, **14**, 1.
- Sodium and potassium of the neuron, The relation of the phosphatides to the. Koch and Pike. 1910-11, **2**, 245.
- bicarbonate and caffeine, The effects of, upon the toxicity of acetanilide. Hale. 1910, **1**, 185.
- bicarbonate and sodium chloride, Effect of, upon the convulsions produced by heroin and strychnine. Kleiner. (Proceedings) 1912-13, **4**, 357.
- cacodylate, The non-dependence of the protein quotient in the blood-serum upon the rapidity of metabolism with especial reference to the non-effect of antipyretics, thyroid extract and. Hanson and McQuarrie. 1917-18, **10**, 261.
- carbonate (concentrated salt solutions) injected into the circulation. The Sodium action of drugs on the output of epinephrine from the adrenals. II. Stewart and Rogoff. 1919, **13**, 167.

- Sodium chloride and sodium bicarbonate, Effect of, upon the convulsions produced by heroin and strychnine. Kleiner. (Proceedings) 1912-13, **4**, 357.
- chloride, sodium fluoride, "phosphate rock," calcium phosphate (precipitated), calcium carbonate (precipitated), Fluoride, chloride and calcium, including. Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- chloride, Some observations on the physiological action of. Joseph and Meltzer. 1910-11, **2**, 271.
- chloride, The inhibitory action of, upon the phenomena following the removal of the parathyroids in dogs. Joseph and Meltzer. (Proceedings) 1910-11, **2**, 404.
- chloride, The inhibitory action of, upon the phenomena following the removal of the parathyroids in dogs. A preliminary communication. Joseph and Meltzer. 1910-11, **2**, 361.
- citrate, On the action of, upon mammalia, with especial reference to acquired tolerance and to its action upon the cerebellum. Robertson and Burnett. 1911-12, **3**, 635.
- citrate, Studies on the pharmacology of. I. The influence of sodium citrate on respiration and circulation. Salant and Kleitman. 1923, **20**, 481.
- citrate, The action of, on the isolated intestine. Salant and Schwartz. 1917, **9**, 497.
- citrate, The fate of, in the body. Salant and Wise. (Proceedings) 1916, **8**, 123.
- cyanide, Stimulation of respiration by. Loevenhart. (Proceedings) 1918, **11**, 185.
- cyanide, The action of respiratory stimulants upon the respiration when depressed by increased intracranial pressure with special reference to. Studies on stimulation of the respiration. Loevenhart, Malone and Martin. 1922, **19**, 13.
- cyanide, The determination of the circulation time in dogs and rabbits and its relation to the reaction time of the respiratory center to. Seybold, Loevenhart and Schlomovitz. (Proceedings) 1921, **17**, 345.
- cyanide, The determination of the circulation time in rabbits and dogs and its relation to the reaction time of the respiration to. Loevenhart, Schlomovitz and Seybold. 1922, **19**, 221.
- cyanide, The influence of sodium iodoxybenzote and, upon an allergic reaction of inflammatory character. Amberg and Knox. 1911-12, **3**, 223.
- fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated), and calcium carbonate (precipitated), Fluoride, chloride and calcium, including. Studies of chronic intoxications on albino rats. IV. Sollmann, Schettler and Wetzel. 1921, **17**, 197.
- fluoride, The effects of, upon the calcium balance and the calcium content of the blood. Clark. (Proceedings) 1922, **19**, 254.
- iodide, The absorption of. Quantitative studies on the gastro-intestinal absorption of drugs. II. Hanzlik. 1911-12, **3**, 387.
- iodosobenzoate, The action of hydrocyanic acid on the respiration and the antagonistic action of. Grove and Loevenhart. 1911-12, **3**, 131.
- iodoxybenzoate and sodium cyanide, The influence of, upon an allergic reaction of inflammatory character. Amberg and Knox. 1911-12, **3**, 223.

- Sodium oxalate, The favorable antagonistic effect of magnesium sulphate against surely fatal doses of. Gates and Meltzer. (Proceedings) 1917, **9**, 353.
- phosphate, Observations on the effect of intravenous injections of. Greenwald. 1915, **7**, 57.
- phosphate, Observations on the effect of intravenous injections of some sodium salts with special reference to the supposed toxicity of. Greenwald. 1918, **11**, 281.
- salt, The detoxifying action of, on potassium salt in the guinea pig. Amberg and Helmholtz. 1919, **12**, 19.
- salts, Observations on the effect of intravenous injections of some, with special reference to the supposed toxicity of sodium phosphate. Greenwald. 1918, **11**, 281.
- salts of iodbenzoic, iodosobenzoic and iodoxybenzoic acids, On the antiseptic and bactericidal action of. Arkin. 1911-12, **3**, 145.
- salts, The detoxifying action of, upon potassium salts on intravenous injection. Amberg and Helmholtz. (Proceedings) 1916, **8**, 120.
- tartrate, The influence of, on the circulation. Salant and Smith. (Proceedings) 1913-14, **5**, 515.
- tartrate, The influence of diet on the toxicity of. Salant and Swanson. 1918, **11**, 27.
- , The comparative toxicity of the chlorides of magnesium, calcium, potassium and. Joseph and Meltzer. 1910, **1**, 1.
- Sollmann, Torald. Anthelmintics: their efficiency as tested on earthworms. 1919, **12**, 129.
- , Astringency and protein-precipitation by masked tannin compounds. 1921, **17**, 63.
- , Benzyl alcohol: its anesthetic efficiency for mucous membranes. 1919, **13**, 355.
- , Comparative activity of local anesthetics. I. Paralysis of motor nerve fibers. Direct application to the sciatic nerve of the frog. 1918, **10**, 379.
- , Comparative activity of local anesthetics. II. Paralysis of sensory nerve fibers. 1918, **11**, 1.
- , Comparison of activity of local anesthetics. III. Anesthesia of frog-skin. 1918, **11**, 9.
- , Comparison of activity of local anesthetics. IV. Anesthesia of rabbit's cornea. 1918, **11**, 17.
- , Comparative efficiency of local anesthetics. V. Anesthesia of the human skin. General conclusions. 1918, **11**, 69.
- , Comparative activity of local anesthetics. VI. Difficultly soluble anesthetics on mucous membranes. 1919, **13**, 429.
- , Comparative toxicity of local anesthetics and of antipyretics for earthworms. 1920, **14**, 319.
- , Cutaneous irritation by mustard oil as influenced by various solvents. 1918, **11**, 229.
- , Dichlorethylsulphide (mustard gas). I. The influence of solvents, adsorbents and chemical antidotes on the severity of the human skin lesions. 1919, **12**, 303.
- , Dichlorethylsulphide (mustard gas). II. The question of induced hypersusceptibility of the skin. 1919, **12**, 319.

- Sollmann, Torald. Do local anesthetics precipitate proteins? 1920, **14**, 135.
- , Endermic reactions. II. Urticaria by amins and aromatic and urea derivatives. 1917, **9**, 391.
- , Endermic reactions. III. Further experiments on local urticaria. 1917-18, **10**, 147.
- , Experiments with carvacrol. 1920, **14**, 251.
- , Fate of iodine, iodates and iodides in the body. (Proceedings) 1917, **9**, 350.
- , Iodine: Effect on fibrous nodules. 1919, **13**, 495.
- , Observations on paradichlorbenzene and paradibrombenzene. 1920, **14**, 243.
- , Studies of chronic intoxications on albino rats. II. Alcohols (ethyl, methyl and "wood") and acetone. 1921, **16**, 291.
- , Studies of chronic intoxications on albino rats. III. Acetic and formic acids. 1921, **16**, 463.
- , Studies of chronic intoxications on albino rats. V. Arsenic trioxid. 1921, **18**, 43.
- , Studies of chronic intoxications on albino rats. VI. Lead carbonate. 1922, **19**, 375.
- , The comparative absorbability of local anesthetics from the urethra. 1918, **11**, 159.
- , The fate of iodine, iodide and iodates in the body. 1917, **9**, 269.
- , The influence of reaction on the precipitation of proteins by tannin. 1921, **16**, 49.
- , and Bonar, M. L. Experimental drug addiction. (Proceedings) 1920, **15**, 238.
- , and Bonar, M. L. The effects of some new local anesthetics. Para-amino-benzoyl dinormal butyl-amino ethanol and propanol; and diethyl amino-propyl diphenyl amino-carbinol. 1921, **18**, 467.
- , and Hanzlik, P. J. Inhibition of iodide absorption by chloride. (Proceedings) 1911-12, **3**, 473.
- , Hanzlik, P. J., and Pilcher, J. D. Quantitative studies on the gastro-intestinal absorption of drugs: I. The inhibitory action of phenol on absorption. 1910, **1**, 409.
- , Mendenhall, W. L., and Stingel, J. L. Influence of temperature and concentration on the quantitative reaction of the heart to ouabain. 1914-15, **6**, 533.
- , and Pilcher, J. D. Antagonistic studies with alcohol and caffeine. (Proceedings) 1911-12, **3**, 473.
- , and Pilcher, J. D. Central vasomotor effects. (Proceedings) 1910, **1**, 571.
- , and Pilcher, J. D. Endermic reactions. I. 1917, **9**, 309.
- , and Pilcher, J. D. Endermic reactions. (Proceedings) 1917, **9**, 350.
- , and Pilcher, J. D. Quantitative studies of vagus stimulation and atropine. 1913-14, **5**, 317.
- , and Pilcher, J. D. Studies on the vasomotor centre.—I. The effects of the nitrite group. 1914-15, **6**, 323.
- II. The action of strychnine, 331.

- III. The action of epinephrine, 339.
- IV. The action of camphor, 345.
- V. The action of chloroform, 349.
- VI. The action of cyanide, 361.
- VII. The action of aconite, 365.
- VIII. The action of nicotine, 369.
- IX. The action of spartein, 373.
- X. The action of phenol, 377.
- XI. The action of choline, 381.
- XII. The action of ergot and its constituents ergotoxin and histamine 385.
- XIII. The action of hydrastis; its alkaloids hydrastine and berberine; and the derivatives hydrastinine and cotarnine, 391.
- XIV. The action of digitalis and strophanthus, 395.
- XV. The action of ether, 401.
- XVI. The action of pituitary extract, 405.
- XVII. The action of lactic acid, 409.
- , and Pilcher, J. D. Studies on the vasomotor centre. XVIII. The effects of veratrum viride and cevadine (veratrine). 1915, **7**, 295.
- , and Pilcher, J. D. The actions of caffeine on the mammalian circulation. I. The persistent effects of caffeine on the circulation. 1911-12, **3**, 19.
- , Schettler, O. H., and Wetzel, N. C. Studies of chronic intoxications on albino rats. I. Organization of the investigations. 1921, **16**, 273.
- , Schettler, O. H., and Wetzel, N. C. Studies of chronic intoxications on albino rats. IV. Fluoride, chloride and calcium, including sodium fluoride, sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). 1921, **17**, 197.
- , and Wetzel, N. C. Iodine absorption from the human skin. 1920, **15**, 169.
- Solvents, Cutaneous irritation by mustard oil as influenced by various. Sollmann. 1918, **11**, 229.
- , The influence of various, upon the toxicity of thymol. Schultz. (Proceedings) 1914-15, **6**, 599.
- Spaeth, R. A. Concerning a new method for the biological standardization of pituitary extract and other drugs. 1918, **11**, 209.
- , and Barbour, H. G. Responses of fish melanophores to sympathetic and parasympathetic stimulants and depressants. (Proceedings) 1917, **9**, 356.
- , and Barbour, H. G. The action of epinephrine and ergotoxin upon single, physiologically isolated cells. 1917, **9**, 431.
- Spartein, The action of. Studies on the vasomotor centre. IX. Pilcher and Sollmann. 1914-15, **6**, 373.
- and adrenaline, Influence of intravenous injections of, on the heart of the dog. Strickler and Fleisher. 1910-11, **2**, 55.
- Sphincter muscle of the iris, The influence of physostigmine upon. Joseph. (Proceedings) 1917, **9**, 357.
- muscle of the iris, The mutually antagonistic actions of adrenaline and physostigmine upon the. Joseph. (Proceedings) 1917, **9**, 358.
- Spinal anesthetic, Benzyl alcohol as a. Voegtlin and Livingston. (Proceedings) 1919, **13**, 513.
- cord, The site of action of strychnine in the. Ryan and McGuigan. 1910-11, **2**, 319.

- Spinal cord, The treatment of experimental beri-beri with extracts of. Voegtlin and Towles. 1913-14, **5**, 67.
- Spirochete and trypanosome infections, On the therapeutic action of ureids of N-phenylglycine-p-arsonic acid in. Pearce and Brown. (Proceedings) 1920, **15**, 242.
- Spirochetes in cultures, On the resistance of various, to the action of chemical and physical agents. Bronfenbrenner and Noguchi. 1912-13, **4**, 333.
- , On their drugfastness against certain arsenical, mercurial and iodide compounds in vitro. Noguchi and Akatsu. (Proceedings) 1917, **9**, 363.
- Spirocheticidal action, Concerning the presence of, in a group of drugs which possess no trypanocidal action in vivo. Brown and Pearce. (Proceedings) 1920, **15**, 243.
- Splanchnic and cervical sympathetic neuromuscular mechanisms, A study of the action of cocaine on the. Tatum. 1921, **16**, 109.
- nerve, The effect of nicotine on the two kidneys after unilateral section of the. Kolls and Marshall. (Proceedings) 1917, **9**, 347.
- nerve, The effects of unilateral excision of the adrenal, section of the renal nerves and section of the, on the secretion of the kidney. Marshall and Kolls. (Proceedings) 1917, **9**, 346.
- nerves, The liberation of epinephrine from the adrenal glands by stimulation of the, and by massage. Stewart, Rogoff and Gibson. 1916, **8**, 205.
- Spleen, Action of adrenaline on the. Hartman and Lang. 1919, **13**, 417.
- Splenectomized mice, The lethal dose of arsenic for. Towles. 1916, **8**, 465.
- Squills, A new water soluble active constituent of. Ewins. 1911-12, **3**, 145.
- Stewart, G. N. Studies on the circulation in man: IV. The influence of oxygen inhalation on the circulation in a case of cyanosis. 1910-11, **2**, 477.
- , Studies on the circulation in man. XV. Further observations, chiefly pharmacological, on the criteria by which deficiencies in the bloodflow (in the hands or feet) due to mechanical causes may be discriminated from changes due to functional (vasomotor) causes. 1915, **7**, 281.
- , The mechanism of haemolysis with special reference to the relations of electrolytes to cells. 1910, **1**, 49.
- , and Rogoff, J. M. Action of certain drugs on the output of epinephrine from the adrenals. (Proceedings) 1919, **13**, 513.
- , and Rogoff, J. M. Demonstration that the spontaneously liberated epinephrine can exert an action upon the heart. 1919, **13**, 397.
- , and Rogoff, J. M. Further observations on ether hyperglycemia in the absence of the adrenals. (Proceedings) 1920, **15**, 238.
- , and Rogoff, J. M. Quantitative experiments on the liberation of epinephrine from the adrenals after section of their nerves, with special reference to the question of the indispensability of epinephrine for the organism. 1917-18, **10**, 1.
- , and Rogoff, J. M. Spontaneous liberation of epinephrine from the adrenals. 1916, **8**, 479.
- , and Rogoff, J. M. The action of drugs upon the output of epinephrine from the adrenals. I. Strychnine. 1919, **13**, 95.
- , and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. II. Concentrated salt solutions (sodium carbonate) injected into the circulation. 1919, **13**, 167.

- Stewart, G. N., and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. III. Nicotine. 1919, **13**, 183.
- , and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. IV. Strophanthine. 1919, **13**, 361.
- , and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. V. Curara. 1920, **14**, 343.
- , and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. VI. Atropine; pilocarpine. 1921, **16**, 71.
- , and Rogoff, J. M. The action of drugs upon the output of epinephrine from the adrenals. VII. Physostigmine. 1921, **17**, 227.
- , and Rogoff, J. M. The action of drugs on the output of epinephrine from the adrenals. VIII. Morphine. 1922, **19**, 59.
- , and Rogoff, J. M. The influence of asphyxia upon the rate of liberation of epinephrine from the adrenals. 1917-18, **10**, 49.
- , and Rogoff, J. M. The influence of morphine on normal cats and on cats deprived of the greater part of the adrenals, with special reference to body temperature, pulse and respiratory frequency and blood sugar content. 1922, **19**, 97.
- , and Rogoff, J. M. The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the adrenals with special reference to body temperature, pulse and respiratory frequency. 1922, **19**, 87.
- , and Rogoff, J. M. The proportion in which adrenaline distributes itself between corpuscles and serum in relation to the technique of testing for epinephrine in blood. 1917, **9**, 393.
- , Rogoff, J. M., and Gibson, F. S. Liberation of epinephrine from the adrenal glands by stimulation of the splanchnic nerves and by massage. 1916, **8**, 205.
- , and Scott, R. W. Studies on the circulation in man. XIV. The change produced in the bloodflow (in the hands) under the influence of digitalis in cases of auricular fibrillation. 1915, **7**, 263.
- Stimulants, The mode of action of certain, in increasing and of certain depressants in decreasing oxidation. Burge. 1919, **12**, 243.
- Stimulating drugs, A method for measuring the influence of sedatives and of, on the activity of animals (activitymeter). Storm van Leeuwen. 1921, **17**, 169.
- Stingel, J. L., Sollmann, Torald, and Mendenhall, W. L. Influence of temperature and concentration on the quantitative reaction of the heart to ouabain. 1914-15, **6**, 533.
- Stockman, Ralph. The pharmacological action of *catha edulis*, and its alkaloids. 1912-13, **4**, 251.
- , The therapeutical action of the cresotinic acids. 1912-13, **4**, 97.
- Stomach, Contributions to the physiology of the. XVI. The action of the so-called stomachics or bitters on the hunger mechanism. Carlson, Van de Erve, Lewis and Orr. 1914-15, **6**, 209.
- , Contributions to the physiology of the. XXVIII. Further studies on the action of bitter tonics on the secretion of gastric juice. Moorehead. 1915, **7**, 577.

- Stomach of the dog, On the action of atropine sulphate on the isolated bowel and. Zunz and Tysebaert. 1916, **8**, 325.
- , On the causation of experimental anaphylactic hemorrhages in the. Auer. (Proceedings) 1922, **19**, 255.
- Stomachics or bitters, Action of the so-called, on the hunger mechanism. Contributions to the physiology of the stomach. XVI. Carlson, Van de Erve, Lewis and Orr. 1914-15, **6**, 209.
- Storm van Leeuwen, W. On the influence of colloids on the action of non-colloidal drugs. I. 1921, **17**, 1.
- , Studies on the influence of sedatives on animals. I. A method for measuring the influence of stimulating drugs and of sedatives on the activity of animals (activitymeter). 1921, **17**, 169.
- , and Maal, P. H. The physiological standardization of extract of belladonna. 1921, **18**, 313.
- , and Verzar, F. The sensitiveness to poisons in avitaminous animals. 1921, **18**, 293.
- , and von Szent Györgyi, A. On the influence of colloids on the action of non-colloidal drugs. III. 1921, **18**, 257.
- , and von Szent Györgyi, A. On the influence of colloids on the action of non-colloidal drugs. IV. 1921, **18**, 271.
- , and von Szent Györgyi, A. On the further influence of colloids on the action of non-colloidal drugs. V. A further analysis of the augmentor effect of lecithin on the action of pilocarpine. 1923, **20**, 1.
- , and von Szent Györgyi, A. On scopolamine-morphine narcosis. 1921, **18**, 449.
- , and Zeijdner, J. On the influence of colloids on the action of non-colloidal drugs. II. 1921, **17**, 121.
- Stovaine, A contribution to the pharmacology of. Hatcher and Smith. 1917, **9**, 231.
- , alypine, eucaine, holocaine and novocaine on the bladder. Waddell. 1917-18, **10**, 243.
- Straub biologic test, The mechanism of the, for morphine. Heinekamp. 1923, **20**, 107.
- Straub's biologic test for opium alkaloids. Jensen and Rumry. (Proceedings) 1918, **11**, 178.
- morphine reaction, A pharmacodynamic analysis of. Macht. (Proceedings) 1920, **15**, 243.
- Striated muscle, Action of local anesthetics on. Macht and Kubota. (Proceedings) 1919, **13**, 507.
- muscle, Concerning the action of local anesthetics on. Kubota and Macht. 1919, **13**, 31.
- Strickler, A., and Fleisher, M. S. The influence of intravenous injections of sparteine and adrenaline on the heart of the dog. 1910-11, **2**, 55.
- Strophanthine, A clinical study of crystalline. Bailey. 1910, **1**, 349.
- , Absorption from the gastro-intestinal tract. Hatcher. (Proceedings) 1910, **1**, 575.
- , Mode of action of, upon cardiac tissue. Clark. 1913-14, **5**, 215.
- , The action of drugs on the output of epinephrine from the adrenals. IV. Stewart and Rogoff. 1919, **13**, 361.

- Strophanthine, The action of, upon suprarenal secretion. Richards and Wood. 1914-15, **6**, 283.
- , The influence of temperature on the action of, on the mammalian heart. Gunn. 1914-15, **6**, 39.
- g-Strophanthine, The action of, on the isolated mammalian heart. Greene. (Proceedings) 1910-11, **2**, 398.
- Strophanthus, Action of digitalis and. Studies on the vasomotor centre. XIV. Pilcher and Sollmann. 1914-15, **6**, 395.
- and calcium, The reaction of the cat's uterus to. Ransom. 1920, **15**, 181.
- , Increase of "tone" associated with the action of, on the heart. Tait and Pringle. 1916, **8**, 339.
- , The congenital tolerance of the rat to. Gunn. 1912-13, **4**, 325.
- Strouse, S., and Voegtlin, Carl. Studies concerning the iodine-containing principle of the thyroid gland. I. Pharmacological action and therapeutic behavior of diiodotyrosin. 1910, **1**, 123.
- Strychnine, Action of. Studies on the vasomotor centre. II. Pilcher and Sollmann. 1914-15, **6**, 331.
- action, Similarity and synergy of morphine and. McGuigan and Ross. 1915, **7**, 385.
- convulsions, The influence of temperature on the onset of, in the intact frog. Schlomovitz and Chase. (Proceedings) 1916, **8**, 127.
- , Functional evidence of the phylogeny of the nervous system as shown by the behavior and resistance of the developing rat to. Schwartz. 1922, **19**, 273.
- in the animal body, Behavior of. Hatcher and Eggleston. (Proceedings) 1917, **9**, 359.
- nitrate. Studies in absorption of drugs from the gastric mucous membrane. I. Ryan. 1912-13, **4**, 43.
- , Observations upon the resistance of the rat to consecutive injections of. Schwartz. 1922, **19**, 49.
- , On the duration of irritability of the motor nerves of the frog after death and the effect of. Githens and Meltzer. (Proceedings) 1911-12, **3**, 463.
- , On the effect of sodium bicarbonate and sodium chloride upon the convulsions produced by heroin and. Kleiner. (Proceedings) 1912-13, **4**, 357.
- , Perfusion of the medulla of the turtle with atropine, caffeine, and with. Bush. 1920, **14**, 313.
- , Peripheral point of attack of. Hammet. 1916, **8**, 176.
- , pilocarpine and physostigmine, The importance of the adrenal glands in the action of. Edmunds. 1923, **20**, 405.
- poisoning, The control of, by means of insufflation and ether. Githens and Meltzer (Proceedings) 1910-11, **2**, 404.
- poisoning, The control of, by means of intratracheal insufflation and ether. A preliminary communication. Githens and Meltzer. 1910-11, **2**, 357.
- , Studies in Tolerance, II. Hale. 1910, **1**, 39.
- , Studies on. Weiss and Hatcher. 1922, **19**, 419.
- , Studies on the convulsive reflex produced by. I. Habit. Mostrom and McGuigan. 1911-12, **3**, 515.
- , Studies on the convulsive reflex produced by. II. As modified by epinephrine. Mostrom and McGuigan. 1911-12, **3**, 521.

- Strychnine. The action of drugs upon the output of epinephrine from the adrenals. I. Stewart and Rogoff. 1919, **13**, 95.
- , The action of, in cardiac arrhythmias. Smith. (Proceedings) 1917, **9**, 344.
- , The action of, in certain types of cardiac irregularities. Smith. 1917, **9**, 365.
- , The action of, on certain invertebrates. Moore. 1917, **9**, 167.
- , The effects of cocaine, quinine and, on the vas deferens. Waddell. 1917, **9**, 279.
- , The elimination of, by the kidneys. Hatcher and Smith. 1917, **9**, 27.
- , The fate of, in the body. Hatcher and Eggleston. 1917-18, **19**, 281.
- , The function of the brain phosphatides in the physiological action of. Koch and Mostrom. 1910-11, **2**, 265.
- , The reduction of the toxicity of, by the simultaneous administration of large quantities of indifferent fluids. Kleiner and Meltzer. (Proceedings) 1917, **9**, 359.
- The segmental action of. McGuigan, Keeton and Sloan. 1916, **8**, 143.
- The site of the action of. McGuigan and Becht. 1913-14, **5**, 469.
- , The site of action of, in the spinal cord. Ryan and McGuigan. 1910-11, **2**, 319.
- , The toxicity of, for Genus Mus, together with a note on its possible biological and neurological significance. Schwartz. (Proceedings) 1920, **15**, 235.
- , The toxicity of, for the brown bat (*epstesicus fuscus*). Schwartz. (Proceedings) 1921, **17**, 344.
- Stylophorum, The pharmacology of chelidonine, the benzyloquinoline alkaloid of chelidonium (celandine or tetterwort) and. Hanzlik. 1921, **18**, 63.
- Subarachnoid injections, The effect of, of antiseptics upon the central nervous system. Wegforth and Essick. 1919, **13**, 335.
- space, Experimental irrigation of the. Weed and Wegforth. 1919, **13**, 317.
- Subcutaneous versus intramuscular absorption. Rowntree and Geraghty. (Proceedings) 1911-12, **3**, 460.
- Succinate and its derivatives. Salant and Livingston. (Proceedings) 1917, **9**, 344.
- , Experiments with, and its hydroxy derivatives on the isolated frog heart. Salant, Livingston and Connet. 1917-18, **10**, 129.
- , The action of, and its hydroxy derivatives on the isolated intestine. Salant, Mitchell and Schwartz. 1917, **9**, 511.
- Sugar in the blood, The condition of the. Hess and McGuigan. 1914-15, **6**, 45.
- mobilization, The action of quinine on, with its bearing on the question of glycogenolysis. Tatum and Cutting. 1923, **20**, 393.
- Sugiura, Kanematsu, and Falk, K. G. Some observations on the elimination of hexamethylenetetramine (urotropine). 1916, **8**, 39.
- , and Falk, K. G. Some observations on the elimination of hexamethylene-tetramine (urotropine). (Proceedings) 1916, **8**, 128.
- , and Falk, K. G. The elimination of hexamethylenetetramine (urotropine) as an index of renal function. 1917, **9**, 241.

- Sulphonated dyes, On the convulsant action of some. Macht. 1911-12, **3**, 531.
- Suprarenal secretion, The action of strophanthine upon. Richards and Wood. 1914-15, **6**, 283.
- Surface, F. M. The effect of surplus cow serum upon complement fixation with infectious abortion. (Proceedings) 1912-13, **4**, 352.
- Surface tension of water, A comparison of the effect of certain saponins on the, with their hemolytic power. Woodward and Alsberg. 1921, **16**, 237.
- tension, Relation of the, of saponin solutions to their hemolytic activity. Alsberg and Woodward. (Proceedings) 1916, **8**, 109.
- Swanson, A. M., and Salant, William. Observations on the action of tartrates, citrates and oxalates. A study in tolerance, cumulation and the effect of diet. 1918, **11**, 133.
- , and Salant, William. Studies on tolerance and cumulation. Experiments with tartrate, citrate and oxalate. (Proceedings) 1917, **9**, 353.
- , and Salant, William. The influence of diet on the toxicity of sodium tartrate. 1918, **11**, 27.
- , and Salant, William. The protective action of diet against tartrate nephritis. 1918, **11**, 43.
- Symes, W. L., and Golla, F. L. The reversible action of adrenaline and some kindred drugs on the bronchioles. 1913-14, **5**, 87.
- Sympathetic and parasympathetic stimulants and depressants, Responses of fish melanophores to. Barbour and Spaeth. (Proceedings) 1917, **9**, 356.
- nerve endings, The action of pilocarpine upon. Edmunds. (Proceedings) 1922, **19**, 271.
- Sympathetics, The effect of hemorrhage on the. McGuigan. (Proceedings) 1921, **17**, 328.
- Syphilis, Primary scrotal, of the rabbit and its utilization in chemotherapeutic experiments. Brown and Pearce. (Proceedings) 1917, **9**, 355.
- Systemic agents, The effects of various, on superficial hemorrhage. Hanzlik. 1919, **12**, 119.
- Tait, John, and Pringle, Harold. On the increase of "tone" associated with the action of strophanthus on the heart. 1916, **8**, 339.
- Tannin compounds, Astringency and protein-precipitation by masked. Sollmann. 1921, **17**, 63.
- , The influence of reaction on the precipitation of proteins by. Sollmann. 1921, **16**, 49.
- Tarr, Jesse, and Hanzlik, P. J. The comparative skin irritant properties of dichlorethylsulphide ("mustard gas") and other agents. 1920, **14**, 221.
- Tartrate nephritis, The protective action of diet against. Salant and Swanson. 1918, **11**, 43.
- nephritis, The vascular reactions in experimental acute. Karsner. 1917, **9**, 483.
- , Studies on tolerance and cumulation. Experiments with citrate, oxalate and. Salant and Swanson. (Proceedings) 1917, **9**, 353.
- Tartrates, Observations on the action of citrates, oxalates and. A study in tolerance, cumulation and the effect of diet. Salant and Swanson. 1918, **11**, 133.
- Tatum, A. L. A study of the action of cocaine on the splanchnic and cervical sympathetic neuromuscular mechanisms. 1921, **16**, 109.
- , Epinephrine hyperglycemia. (Proceedings) 1921, **17**, 336.

- Tatum, A. L. Epinephrine hyperglycemia. I. 1921, **17**, 395.
- . Epinephrine hyperglycemia. II. 1921, **18**, 121.
- . On the destruction of epinephrine and constrictor substances of serum by oxygenation in the presence of blood vessel walls. 1912-13, **4**, 151.
- . Picrotoxin hyperglycemia. 1923, **20**, 385.
- , and Cutting, R. A. The action of quinine on sugar mobilization with its bearing on the question of glycogenolysis. 1923, **20**, 393.
- Taveau, R. deM., and Hunt, Reid. On the relation between the toxicity and chemical constitution of a number of derivatives of choline and analogous compounds. 1910, **1**, 303.
- Taylor, A. H., and Henderson, V. E. Expectorants. 1910-11, **2**, 153.
- Taylor, F. A., Barbour, H. G., and Hjort, A. M. Drugs after chlorine gassing. I. The influence of morphine upon the fatality of chlorine poisoning. 1920, **14**, 55.
- , and Hjort, A. M. The effect of morphine upon the alkali reserve of the blood of dogs gassed with fatal concentrations of chlorine. 1919, **13**, 407.
- , and Alvarez, W. C. Changes in rhythmicity, irritability and tone in the purged intestine. 1917-18, **10**, 365.
- Taylor, Lester. Clinical studies with caffeine. (Proceedings) 1913-14, **5**, 516.
- Temperature centers, Control of the respiratory exchange by heating and cooling the. Barbour and Prince. 1914-15, **6**, 1.
- centers, The direct application of drugs to the. Barbour and Wing. 1913-14, **5**, 105.
- , On the non-influence of rise in body, induced by drugs upon the protein quotient and the enumeration of white corpuscles. Hill. 1919, **12**, 1.
- , The effects of chlorine upon body. Barbour. 1920, **14**, 65.
- , The effect of ergotoxin on rabbits'. Githens. (Proceedings) 1917, **9**, 360.
- , The effect of high, upon the action and toxicity of digitalis. Hirschfelder, Bicek and Kucera. (Proceedings) 1920, **15**, 238.
- , The effect of high, upon the action and toxicity of digitalis. Hirschfelder, Bicek, Kucera and Hanson. 1920, **15**, 427.
- , The influence of, and concentration on the quantitative reaction of the heart to ouabain. Sollmann, Mendenhall and Stingel. 1914-15, **6**, 533.
- , The influence of ergotoxin on body. Githens. 1917-18, **10**, 327.
- , The influence of morphine on normal cats and cats deprived of the greater part of the adrenals, with special reference to pulse, respiratory frequency, blood sugar content and body. Stewart and Rogoff. 1922, **19**, 97.
- , The influence of muscular exercise on normal cats compared with cats deprived of the greater part of the adrenals, with special reference to pulse, respiratory frequency and body. Stewart and Rogoff. 1922, **19**, 87.
- , The influence of, on the action of strophanthine on the mammalian heart. Gunn. 1914-15, **6**, 39.
- , The influence of, on the onset of strychnine convulsions in the intact frog. Schlomovitz and Chase. (Proceedings) 1916, **8**, 127.
- , The influence of, on the toxicity of caffeine. Salant. (Proceedings) 1912-13, **4**, 342.
- Terry, B. T. The influence of heat upon the toxicity for trypanosomes of blood containing transformed atoxyl. (Proceedings) 1912-13, **4**, 361.
- . Variations in the toxic effects of transformed atoxyl on trypanosomes in vitro caused by altering the number of organisms. (Proceedings) 1912-13, **4**, 361.

- Testis, Action of opium alkaloids on the ducts of the. Macht. 1917, **9**, 121.
- Tetanic convulsions in frogs produced by acid fuchsin, and their relation to the problem of inhibition in the central nervous system. Barbour and Abel. 1910-11, **2**, 167.
- convulsions in frogs produced by acid fuchsin and their relation to the problems of inhibition in the central nervous system. Barbour and Abel. (Proceedings) 1910-11, **2**, 404.
- Tetanus antitoxin, The treatment of experimental tetanus in dogs by intravenous injection of magnesium sulphate and. Auer and Meltzer. (Proceedings) 1919, **13**, 506.
- , The influence of decerebration upon morphine, in frogs. Githens. (Proceedings) 1912-13, **4**, 356.
- Tetany, On the influence of various salts upon, following parathyroidectomy. Voegtlin and MacCallum. 1910-11, **2**, 421.
- , Toxicity of phosphates, in relation to blood calcium and. Binger. 1917-18, **10**, 105.
- Tetrahydropyrido-3.4-iminazole ("Imidazolisopiperidin" of Fränkel), The physiological action of N-methylhistamine and of. Dale and Dudley. 1921, **18**, 103.
- Tetramethyl ammonium chloride, on the respiration and circulation. Loevenhart. (Proceedings) 1913-14, **5**, 515.
- Theobromine, Cross tolerance; renal response to caffeine and, in rabbits tolerant toward caffeine. Myers. (Proceedings) 1918, **11**, 177.
- , Demethylation of caffeine and, under pathological conditions. Salant and Phelps. (Proceedings) 1911-12, **3**, 469.
- , The action of caffeine, theophylline and, on the mammalian and batrachian heart. Heathcote. 1921, **16**, 327.
- Theophylline, The action of caffeine, theobromine and, on the mammalian and batrachian heart. Heathcote. 1921, **16**, 327.
- Thio-sulphate, Systemic interaction of iodine and. Meyers and Ferguson. (Proceedings) 1921, **17**, 347.
- Thioureas, The toxicity of some thiuramdisulphides and. Hanzlik and Irvine. 1921, **17**, 349.
- Thiuramdisulphides, The toxicity of some thioureas and. Hanzlik and Irvine. 1921, **17**, 349.
- Thoburn, T. W., Hanzlik, P. J., and Scott, R. W. Excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. (Proceedings) 1916, **8**, 120.
- , Hanzlik, P. J., and Scott, R. W. Further observations on albuminuria and renal function following the administration of full therapeutic doses of salicylate. (Proceedings) 1917, **9**, 349.
- , Hanzlik, P. J., and Scott, R. W. Salicyl in blood and joint fluid of individuals receiving full therapeutic doses of salicylate. (Proceedings) 1916, **8**, 130.
- , Hanzlik, P. J., and Scott, R. W. The salicylates. V. The excretion of salicyl in the urines of rheumatic and non-rheumatic individuals. 1917, **9**, 247.

- Thoburn, T. W., Scott, R. W., and Hanzlik, P. J. Excretion of salicylate in various clinical conditions. (Proceedings) 1917, **9**, 347.
- , Scott, R. W., and Hanzlik, P. J. The salicylates. IV. Salicylate in the blood and joint fluid of individuals receiving full therapeutic doses of the drug. 1917, **9**, 217.
- Thomas, J. E. Some factors in the production of acid fuchsin convulsions in frogs. (Proceedings) 1921, **17**, 334.
- Thompson, J. W., and Voegtlin, Carl. Quantitative studies in chemotherapy. VI. Rate of excretion of arsenicals, a factor governing toxicity and parasitidal action. 1923, **20**, 85.
- , and Voegtlin, Carl. Rate of excretion of arsenicals. A factor in governing toxicity and parasitidal action. (Proceedings) 1922, **19**, 258.
- Thromboplastic agents, Anaphylactoid phenomena from. Hanzlik, Karsner and Fetterman. 1920, **14**, 229.
- agents, Comments on the clotting efficiency of. Fenger. 1920, **15**, 167.
- agents, The clotting efficiency of: A reply. Hanzlik. 1921, **16**, 35.
- agents, The hemostatic properties of, under different conditions. Hanzlik and Weidenthal. 1920, **14**, 189.
- agents, The plasma and blood clotting efficiency of, in vitro and their stability. Hanzlik and Weidenthal. 1920, **14**, 157.
- Thymol and carvacrol (isothymol), The comparative toxicity of. Livingston. 1921, **17**, 261.
- , Comparative toxicity of carvacrol and. Livingston. (Proceedings) 1920, **15**, 234.
- , The influence of various solvents upon the toxicity of. Schultz. (Proceedings) 1914-15, **6**, 599.
- Thyreotropic iodine compounds. Hunt and Seidell. 1910-11, **2**, 15.
- Thyroid, Attempt to detect thyroid secretion in blood obtained from the glands of individuals with exophthalmic goiter and other conditions involving the. Rogoff and Goldblatt. 1921, **17**, 473.
- extract, The non-dependence of the protein quotient in the blood-serum upon the rapidity of metabolism with especial reference to the non-effect of antipyretics, sodium cacodylate and. Hanson and McQuarrie. 1917-18, **10**, 261.
- gland, How rapidly does the intact, elaborate its specific iodine containing hormone? Marine and Rogoff. 1917, **9**, 1.
- gland in vivo, The absorption of potassium iodide by the, following its intravenous injection in constant amounts. Marine and Rogoff. 1916, **8**, 439.
- gland, Note on the preparation of a soluble concentrated product of the. Rogoff. 1919, **12**, 207.
- gland, Studies concerning the iodine-containing principle of the. I. Pharmacological action and therapeutic behavior of diiodotyrosin. Strouse and Voegtlin. 1910, **1**, 123.
- gland, The liberation of the internal secretion of the, into the blood. Rogoff. 1919, **12**, 193.
- glands, The absorption of potassium iodide by perfused, and some of the factors modifying it. Marine and Feiss. 1915, **7**, 557.
- -iodine distribution and mobilization, A study of. van Dyke. (Proceedings) 1921, **17**, 335.

- Thyroid-like activity, Attempts to produce a substance with, by the artificial iodization of proteins. Rogoff and Marine. 1917-18, **10**, 321.
- preparations, A method for the standardization of. Rogoff. 1917-18, **10**, 199.
- products, Effect on tadpoles of feeding, obtained by alkaline hydrolysis. Rogoff and Marine. 1917, **9**, 57.
- secretion, Attempt to detect, in blood obtained from the glands of individuals with exophthalmic goiter and other conditions involving the thyroid. Rogoff and Goldblatt. 1921, **17**, 473.
- Tikresol serum, The pharmacological action of subdural injection of. Livingston. (Proceedings) 1920, **15**, 247.
- Time marker, A new. Lieb. 1917, **9**, 227.
- recorder for kymograph tracings. Closson. 1913-14, **5**, 235.
- recording apparatus, Some new. Hale. 1916, **8**, 445.
- Tin, The toxicity of. Salant and Smith. (Proceedings) 1913-14, **5**, 517.
- Ting, G. C., and Macht, D. I. A study of antispasmodic drugs on the bronchus. 1921, **18**, 373.
- , and Macht, D. I. Experimental inquiry into the narcotic properties of some polyhydric alcohols. (Proceedings) 1922, **19**, 252.
- , and Macht, D. I. Experimental inquiry into the sedative properties of some aromatic drugs and fumes. 1921, **18**, 361.
- , and Macht, D. I. Response to drugs of excised bronchi from normal and diseased animals. 1921, **18**, 111.
- Tissue extracts, The relation between the blood coagulating and smooth muscle contracting properties of. Mills, Raap and Jackson. (Proceedings) 1921, **17**, 341.
- metabolites, The relation of brain phosphatides to. Koch and Williams. 1910-11 **2**, 253.
- Toad (*Bufo* *agui*), Two crystalline pharmacological agents obtained from the tropical. Abel and Macht. 1911-12, **3**, 319.
- Tobacco smoking, Effect of, on human sensory thresholds. Mendenhall. (Proceedings) 1921, **17**, 333.
- Tolerance, A study in cumulation, the effect of diet and. Observations on the action of tartrates, citrates and oxalates. Salant and Swanson. 1918, **11**, 133.
- , Cross. Altered susceptibility to codeine, heroine, cannabis-indica and chloral-hydrate in dogs having an acquired tolerance for morphine. Myers 1916, **8**, 417.
- , Cross. Renal response to caffeine and theobromine in rabbits tolerant toward caffeine. Myers. (Proceedings) 1918, **11**, 177.
- , Crossed. Myers. 1914-15, **6**, 601.
- , Further studies in nicotine. Edmunds and Smith. (Proceedings) 1916, **8**, 131.
- , of glucosides of the digitalis series, The factors determining. Clark. 1912-13, **4**, 399.
- of the rat to *strophanthus*, The congenital. Gunn. 1912-13, **4**, 225.
- , On the action of sodium citrate upon mammalia, with especial reference to its action upon the cerebellum and to acquired. Robertson and Burnett. 1911-12, **3**, 635.

- Tolerance, Studies in, I. Nicotine and lobeline. Edmunds. 1910, **1**, 27.
- , Studies in, II. Strychnine. Hale. 1910, **1**, 39.
- , Studies on cumulation and. Experiments with tartrate, oxalate and citrate. Salant and Swanson. (Proceedings) 1917, **9**, 353.
- , The congenital, of the rat to strophanthus. Gunn. 1912-13, **4**, 225.
- Toluene poisoning, Trinitro. Voegtlin, Hooper and Johnson. (Proceedings) 1919, **13**, 512.
- Tonus and smooth muscle, On the relation between, in the terrapin heart. Snyder and Andrus. 1920, **14**, 1.
- Towles, Caroline. The lethal dose of arsenic for splenectomized mice. 1916, **8**, 465.
- , and Voegtlin, Carl. The treatment of experimental beriberi with extracts of spinal cord. 1913-14, **5**, 67.
- Toxins, Drug action as modified by disease. I. Ouabain vs. diphtheria toxin. Bush. 1919, **13**, 55.
- Trichlor-tertiary butyl alcohol anesthesia. Rowe. 1917, **9**, 107.
- Trinitro toluene poisoning. Voegtlin, Hooper and Johnson. (Proceedings) 1919, **13**, 512.
- Tropeines, The. On optical isomers. V. Cushny. 1919, **13**, 71.
- , The. On optical isomers. VI. Cushny. 1920, **15**, 105.
- Trypanocidal action and toxicity of the arsenicals, Effect of ligation of the ureters and bile duct upon the. Voegtlin, Dyer and Miller. (Proceedings) 1922, **19**, 258.
- action and toxicity of arsenicals, Effect of ligation of the ureters or bile duct upon the. Quantitative studies in chemotherapy. VII. Voegtlin, Dyer and Miller. 1923, **20**, 129.
- action in vivo, Concerning the presence of spirocheticidal action in a group of drugs which possess no. Brown and Pearce. (Proceedings) 1920, **15**, 243.
- action of antimony compounds. Quantitative studies in chemotherapy. I. Voegtlin and Smith. 1920, **15**, 453.
- action of arsenic compounds. Quantitative studies in chemotherapy. II. Voegtlin and Smith. 1920, **15**, 475.
- Trypanosome and spirochete infections, On the therapeutic action of ureids of N-phenylglycine-p-arsonic acid in. Pearce and Brown. (Proceedings) 1920, **15**, 242.
- Trypanosomes, The influence of heat upon blood containing transformed atoxyl on its toxicity for. Terry. (Proceedings) 1912-13, **4**, 361.
- , Variations in the toxic effect of transformed atoxyl on, in vitro caused by altering the number of the organisms. Terry. (Proceedings) 1912-13, **4**, 361.
- Trypanosomiasis, Further data relating to the use of certain antimonial compounds in the treatment of experimental. Rowntree and Abel. 1910-11, **2**, 501.
- , On the efficacy of antimony-thioglycollic acid compounds in the treatment of experimental. Rowntree and Abel. 1910-11, **2**, 101.
- , Further data relating to the use of antimony-thioglycollic acid compounds in the treatment of experimental. Rowntree and Abel. (Proceedings) 1910-11, **2**, 396.
- , Summary of results from the treatment of human, with tryparsamide. Pearce and Brown. (Proceedings) 1922, **19**, 257.

- Tryparsamide, Summary of results from the treatment of human trypanosomiasis with. Pearce and Brown. (Proceedings) 1922, **19**, 257.
- Tubercle, Some further observations on the relation of vital stains to the. Lewis (Proceedings) 1912-13, **4**, 353.
- Tuberculin reaction, Quantitative experiments with the cutaneous. Pirquet. 1910, **1**, 151.
- Tuberculosis, An investigation into the chemotherapy of the acridine dyes in experimental. Smith. 1923, **20**, 419.
- , Studies on the biochemistry and chemotherapy of. Distribution of gold in animal tissues. XVII. DeWitt, Caldwell and Leavell. 1918, **11**, 357.
- , Studies on the biochemistry and chemotherapy of. The pharmacology and toxicology of copper salts of amino acids. XVI. Huber. 1918, **11**, 303.
- Tumors, of the white rat, The effect of high protein diet on the growth of transplantable. Beebe and Van Alstyne. (Proceedings) 1912-13, **4**, 343.
- Turner, B. B., and Abel, J. J. On the influence of the lymph hearts upon the action of convulsant drugs in cardiectomized frogs. II. 1914-15, **6**, 91.
- , Abel, J. J., and Rowntree, L. G. On the removal of diffusible substances from the circulating blood of living animals by dialysis. 1913-14, **5**, 275.
- , Abel, J. J., and Rowntree, L. G. On the removal of diffusible substances from the circulating blood of living animals by dialysis. II. Some constituents of blood. 1913-14, **5**, 611.
- , Abel, J. J., and Rowntree, L. G. Plasma removal with return of corpuscles. (Plasmapheresis) 1913-14, **5**, 625.
- , Marshall, E. K., Jr. and Lamson, Paul D. Observations on plasmapheresis. 1915, **7**, 129.
- Tutu plant, On the toxicology of the. Ford. 1910-11, **2**, 73.
- Tyramine as a morphine antagonist. Barbour and Maurer. 1920, **15**, 305.
- Tyrode, M. V. Studies upon the action of certain salts on the isolated intestines. (Proceedings) 1910, **1**, 570.
- Tysebaert, Jacques, and Zunz, Edgard. On the action of atropine sulphate on the isolated stomach and bowel of the dog. 1916, **8**, 325.
- Ulrich, H. L., and Rypins, Harold. A note on adrenaline hyperglycemia in man. 1922, **19**, 215.
- Underhill, F. P., and Errico, Louis. The influence of purgatives upon blood concentration. 1922, **19**, 135.
- , and Hjort, A. M. Studies on the physiological action of some protein derivatives. IV. The toxicity of Vaughan's crude soluble poison. 1922, **19**, 145.
- , and Kapsinow, Robert. Metabolism in chloroform poisoning. (Proceedings) 1922, **19**, 262.
- , Renshaw, R. R., and Mendel, L. B. The action of salts of choline on arterial blood pressure. 1911-12, **3**, 649.
- , Renshaw, R. R., and Mendel, L. B. The physiological action of salts of choline. (Proceedings) 1911-12, **3**, 457.
- and Ringer, Michael. Studies on physiological action of some protein derivatives. V. The relation of blood concentration to peptone shock. 1922, **19**, 163.
- , and Ringer, Michael. Studies on the physiological action of some protein derivatives. VI. The influence upon blood concentration of Vaughan's crude soluble poison. 1922, **19**, 179.

- Uranium glycosuria. Wallace and Myers. (Proceedings) 1913-14, **5**, 511.
- nephritis, A study of the action of various diuretics in. MacNider. 1911-12, **3**, 423.
- nephritis, A study of the action of various diuretics in, with special reference to the part played by the anesthetic in determining the efficiency of the diuretic. MacNider. 1912-13, **4**, 491.
- nephritis, The action of diuretics in. MacNider. (Proceedings) 1911-12, **3**, 459.
- nephritis, The effect of anesthetics on the output of urine in. MacNider. (Proceedings) 1912-13, **4**, 348.
- nephritis, The vascular response of the kidney in acute,—the influence of the vascular response on diuresis. MacNider. 1914-15, **6**, 123.
- nephritis, The vascular response of the kidney in acute, The influence of the vascular response on diuresis. MacNider. (Proceedings) 1913-14, **5**, 520.
- nitrate, The relative toxicity of, for animals of different ages. MacNider. (Proceedings) 1917, **9**, 345.
- Urea derivatives, Urticaria by amins and aromatic and. Endermic reactions. II. Sollmann. 1917, **9**, 391.
- , The action of hypertonic solutions and, on the heart and circulation. Eyster and Wilde. 1910, **1**, 291.
- , The effects on the circulation of hypertonic solutions and. Eyster. (Proceedings) 1910, **1**, 576.
- , The influence of diuresis on the elimination of creatinine, chlorides and. Marshall. 1921, **16**, 141.
- Ureids of N-phenylglycine-p-arsonic acid in trypanosome and spirochete infections, On the therapeutic action of. Pearce and Brown. (Proceedings) 1920, **15**, 242.
- of N-phenylglycine-p-arsonic acid with special reference to β -methyl ureid, On the toxicologic action of. Pearce and Brown. (Proceedings) 1920, **15**, 240.
- Ureter, On the action of drugs on the. Macht. (Proceedings) 1916, **8**, 111.
- , On the pharmacology of the. I. Action of epinephrine, ergotoxin and of nicotine. Macht. 1916, **8**, 155.
- , On the pharmacology of the. II. Action of drugs affecting the sacral autonemics. Macht. 1916, **8**, 261.
- , On the pharmacology of the. III. Action of the opium alkaloids. Macht. 1917, **9**, 197.
- , The pharmacology of. IV. Action of hydrastine, hydrastinine, cotarnine, emetine and some pyridine derivatives with a further analysis of the opium action. Macht. 1917, **9**, 287.
- , On the pharmacology of the. VI. Action of some optic isomers. Macht. 1919, **12**, 255.
- , The action of some optic isomers on the. Macht. (Proceedings) 1917, **9**, 351.
- Ureters, Effect of ligation of the bile duct or, upon the toxicity and trypanocidal action of arsenicals. Voegtlin, Dyer and Miller. (Proceedings) 1922, **19**, 258.
- , Effect of ligation of the, or bile duct upon the toxicity and trypanocidal action of arsenicals. Quantitative studies in chemotherapy. VII. Voegtlin, Dyer and Miller. 1923, **20**, 129.

- Urethra, The comparative absorbability of local anesthetics from the. Sollmann. 1918, **11**, 159.
- Uric acid and other waste products, Influence of salicylates on the elimination of, from the blood. Denis. 1915, **7**, 255.
- acid concentration of the blood as influenced by atophan and radium emanation. Fine and Chace. 1914-15, **6**, 219.
- acid elimination, On the influence of phenylquinolin carbonic acid on the. Folin and Lyman. 1912-13, **4**, 539.
- acid excretion of normal men, The effect of atophan and novatophan on the endogenous. Haskins. 1913-14, **5**, 63.
- acid, The influence of some drugs used in the treatment of gout (and arthritis) on the elimination of, and other waste products from the blood. Denis. 1915, **7**, 601.
- Urinary constituents, The effect of water diuresis on the elimination of certain. Carr. 1921, **18**, 221.
- excretion of salicyl after the administration of salicylates and salicyl esters. Hanzlik, De Eds and Presho. (Proceedings) 1922, **19**, 248.
- Urine, Citric acid as a constituent of normal human. Amberg and Maver. (Proceedings) 1919, **13**, 507.
- excretion and blood volume in rabbits, The influence of intravenous injections of acacia-glucose solutions on. Mattill, Mayer and Sauer. 1921, **16**, 391.
- formation by the perfused kidney: preliminary experiments on the action of caffeine. Richards and Plant. 1915, **7**, 485.
- in uranum nephritis, The effect of anesthetics on the output of. MacNider. (Proceedings) 1912-13, **4**, 348.
- of dogs, The appearance of hyalin casts in the, following the intra-intestinal injection of magnesium sulphate. Gates. (Proceedings) 1914-15, **6**, 610.
- , The comparative concentrations of alcohol in human blood and, at intervals after ingestion. Miles. 1923, **20**, 265.
- , The influence of alcohol on the composition of. Salant and Hinkel. 1910, **1**, 493.
- , The influence of alcohol on the composition of. Salant and Hinkel. (Proceedings) 1910, **1**, 574.
- , The secretion of, and action of diuretics as influenced by blood flow and reduction of renal substance. Marshall and Kolls. (Proceedings) 1919, **13**, 507.
- Urinæ of rheumatic and non-rheumatic individuals, Excretion of salicyl in the. Scott, Thoburn and Hanzlik. (Proceedings) 1916, **8**, 129.
- of rheumatic and non-rheumatic individuals, Excretion of salicyl in the. The Salicylates. V. Hanzlik, Scott and Thoburn. 1917, **9**, 247.
- Urotropine (hexamethylenetetramin), Some observations on the elimination of. Falk and Sugiura. (Proceedings) 1916, **8**, 128.
- (hexamethylenetetramine), The elimination of, as an index of renal function. Falk and Sugiura. 1917, **9**, 241.
- , Some observations on the elimination of hexamethylenetetramine. Falk and Sugiura. 1916, **8**, 39.
- Urticaria by amines and aromatic and urea derivatives. Endermic reactions. II. Sollmann. 1917, **9**, 391.

- Utricularia, Further experiments on local. Endermic reactions. III. Sollmann. 1917-18, **10**, 147.
- Uterine effects of intravenous injections of fluids. Barbour and Rapoport. 1921, **18**, 407.
- strip, The action of so-called emmenagogue oils on the isolated. Macht. 1912-13, **4**, 547.
- Uterus, Effects of various colloids and other agents which produce anaphylactoid phenomena on surviving intestine and. Hanzlik. 1920, **14**, 463.
- masculinus, The pharmacology of the. Waddell. 1917, **9**, 171.
- , Morphine and scopolamine action upon the intact. Barbour. 1915, **7**, 547.
- of the guinea-pig and of the rat, The action of certain drugs on the. Gunn and Gunn. 1913-14, **5**, 527.
- of the guinea pig, The action of certain drugs on the excised. Pilcher. (Proceedings) 1916, **8**, 110.
- , The action of borax on the. Gunn. 1921, **16**, 135.
- , The action of cinchonine, cinchonidine and quinine on the isolated: Hale. (Proceedings) 1914-15, **6**, 602.
- , The action of the "emmenagogue oils" on the human. Gunn. 1921, **16**, 485.
- , The action of salicylates on the. Gunn and Goldberg. 1922, **19**, 207.
- , The activity of the isolated. Ogata. 1921, **18**, 185.
- , The reaction of the cat's, to strophanthus and calcium. Ransom. 1920, **15**, 181.
- , The response of the surviving, to morphine and scopolamine. Barbour and Copenhaver. 1915, **7**, 529.
- , The stimulating action of distilled water on the isolated. Voegtlin and Lake. (Proceedings) 1917, **9**, 352.
- Vagina, On the absorption of drugs and poisons through the. Macht. 1917-18, **10**, 509.
- , The pharmacology of the. Waddell. 1917, **9**, 411.
- Vago-gastric medullary centers, On the stimulation of, by drugs. Rogers. (Proceedings) 1918, **11**, 171.
- Vagus, Effect of homatropine on the. Zulick. 1914-15, **6**, 473.
- nerve in the cat, The influence of pituitrin upon the depressor action of the. Auer and Meltzer. (Proceedings) 1912-13, **4**, 359.
- nerve, The action of caffeine and of epinephrine upon the. Barbour and Kleiner. 1915, **7**, 541.
- nerve, The inhibitory effect of stimulation of the central end of the, upon the contractions of an active expiratory muscle in the chicken. A demonstration. Meyer. (Proceedings) 1917, **9**, 362.
- stimulation, Quantitative studies of atropine and. Pilcher and Sollmann. 1913-14, **5**, 317.
- stimulation, Quantitative studies on atropine and. Pilcher. (Proceedings) 1913-14, **5**, 525.
- Vahlen's active constituent of ergot, Clavin. Van Slyke. 1910, **1**, 265.
- Vanadium, Pharmacological action of. Jackson. 1911-12, **3**, 477.
- , The pulmonary action of, together with a study of the peripheral reactions to the metal. Jackson. 1912-13, **4**, 1.

- Van Alstyne, E., and Beebe, S. P. The effect of high protein diet on the growth of transplantable tumors of the white rat. (Proceedings) 1912-13, **4**, 343.
- Van de Erve, J., Carlson, A. J., Lewis, J. H., and Orr, S. J. Contributions to the physiology of the stomach. XVI. Action of the so-called stomachics or bitters on the hunger mechanism. 1914-15, **6**, 209.
- Van Dyke, H. B. A study of thyroid-iodine distribution and mobilization. (Proceedings) 1921, **17**, 335.
- van Leersum, E. C. An explanation of the laxative action of white mustard seed 1916, **8**, 285.
- Van Slyke, D. D. Clavin, Vahlen's active constituent of ergot. 1910, **1**, 265.
- Vapor of toxic substances, An apparatus for the exposure of skin or mucous membrane to the, with observations on dichlorethylsulphide. Eyster and Maver. 1920, **16**, 95.
- Vapors and gases, An apparatus for the administration of. Marshall and Kolls. 1919, **12**, 385.
- Vas deferens, Pharmacology of the. Waddel. 1916, **8**, 551.
- , The effects of cocaine, strychnine and quinine on the. Waddel. 1917, **9**, 279.
- Vascular conditions in the lungs, The effect on the respiration of altered. Dixon and Ransom. 1913-14, **5**, 539.
- conditions, The relation of, to pituitrin diuresis. Hoskins and Means. 1912-13, **4**, 435.
- mechanism, A study of the relative importance in the nephritic kidney of a, as compared with a functionally responsive epithelium in determining the efficiency of various diuretics. MacNider. (Proceedings) 1914-15, **6**, 599.
- reactions in experimental acetate arthritis. Karsner. 1917, **9**, 483.
- response of the kidney in acute uraemia nephritis. The influence of the vascular response on diuresis. MacNider. (Proceedings) 1913-14, **5**, 520.
- response on the kidney in acute uraemia nephritis,—the influence of the vascular response on diuresis. MacNider. 1914-15, **6**, 123.
- response, The influence of, on diuresis. The vascular response of the kidney in acute uraemia nephritis. MacNider. (Proceedings) 1913-14, **5**, 520.
- Vaso-constriction produced by epinephrine, Demonstration by the use of arterial rings of the inhibitory action of certain drugs on the. Macht. 1914-15, **6**, 591.
- Vaso-constrictive action of serum on the coronary vessels of the mammalian heart. Yanagawa. 1916, **8**, 59.
- Vaso-dilatation, Is the dilatation of the pupil following gangliectomy due to? Githens and Meltzer. (Proceedings) 1916, **8**, 133.
- Vasodilator mechanisms, Location of adrenaline. Hartman. (Proceedings) 1918, **11**, 186.
- Vasomotor causes, Further observations, chiefly pharmacological on the criteria by which deficiencies in the blood flow (in the hands or feet) due to mechanical causes may be discriminated from changes due to (functional). Studies on the circulation in man. XV. Stewart. 1915, **7**, 281.
- , Central vasomotor effects. Sollmann and Pilcher. (Proceedings) 1910, **1**, 571.
- center, The action of alcohol on the respiratory center and. Hyatt and Jensen. (Proceedings) 1918, **11**, 173.

- Vasomotor center, the action of diphtheria toxin on the. Porter and Pratt. (Proceedings) 1912-13, **4**, 352.
- centre, Studies on the. I. The effects of the nitrite group. Pilcher and Sollmann, 1914-15, **6**, 323.
- centre, Studies on the. II. The action of strychnine. Pilcher and Sollmann. 1914-15, **6**, 331.
- centre, Studies on the. III. The action of epinephrine. Pilcher and Sollmann. 1914-15, **6**, 339.
- centre, Studies on the. IV. The action of camphor. Pilcher and Sollmann. 1914-15, **6**, 345.
- centre, Studies on the. V. The action of chloroform. Pilcher and Sollmann, 1914-15, **6**, 349.
- centre, Studies on the. The action of cyanide. VI. Pilcher and Sollmann. 1914-15, **6**, 361.
- centre, Studies on the. VII. The action of aconite. Pilcher and Sollmann. 1914-15, **6**, 365.
- centre, Studies on the. VIII. The action of nicotine. Pilcher and Sollmann. 1914-15, **6**, 369.
- centre, Studies on the. The action of spartein. IX. Pilcher and Sollmann. 1914-15, **6**, 373.
- centre, Studies on the. X. The action of phenol. Pilcher and Sollmann. 1914-15, **6**, 377.
- centre, Studies on the. XI. The action of choline. Pilcher and Sollmann. 1914-15, **6**, 381.
- centre, Studies on the. XII. The action of ergot and its constituents ergotoxin, and histamine. Pilcher and Sollmann. 1914-15, **6**, 385.
- centre, Studies on the. The action of hydrastis; its alkaloids hydrastine and berberine; and the derivatives hydrastinine and cotarnine. XIII. Pilcher and Sollmann. 1914-15, **6**, 391.
- centre, Studies on the. The action of digitalis and strophanthus. XIV. Pilcher and Sollmann. 1914-15, **6**, 395.
- centre, Studies on the. The action of ether. XV. Pilcher and Sollmann. 1914-15, **6**, 401.
- centre, Studies on the. The action of pituitary extract. XVI. Pilcher and Sollmann. 1914-15, **6**, 405.
- centre, Studies on the. The action of lactic acid. XVII. Pilcher and Sollmann. 1914-15, **6**, 409.
- centre, Studies on the. XVIII. The effects of veratrum viride and cevadine (veratrine). Pilcher and Sollmann. 1915, **7**, 295.
- changes in the liver, Further observations on. Edmunds. (Proceedings) 1920, **17**, 347.
- depressants, Effects of, upon the volume of the liver. Edmunds. 1921, **18**, 155.
- effects, Central. Pilcher and Sollmann. (Proceedings) 1910, **1**, 571.
- nerves, Some vasomotor reactions of the liver, with special reference to the presence of, to the portal vein. Edmunds. 1914-15, **6**, 569.
- reaction to nicotine: locus of stimulation. Hoskins and Ranson. 1915, **7**, 375..

- Vasomotor reactions of the liver, Some. Edmunds. (Proceedings) 1914-15, **6**, 606.
- reactions of the liver, with special reference to the presence of vasomotor nerves to the portal vein. Edmunds. 1915, **6**, 569.
- supply of the lungs. Wood. (Proceedings) 1910-11, **2**, 394.
- Vasomotors, The action of epinephrine on heart beats and, studied separately by the artificial control of blood pressure by means of the compensator. Brooks, McPeck and Seymour. (Proceedings) 1918, **11**, 168.
- Vaughan's crude soluble poison, The toxicity of. Studies on the physiological action of some protein derivatives. IV. Underhill and Hjort. 1922, **19**, 145.
- crude soluble poison, The influence upon blood concentration of. Studies on the physiological action of some protein derivatives. VI. Underhill and Ringer. 1922, **19**, 179.
- Vena cava, Anastomosis between the portal vein and the inferior, (Eck's fistula) Bernheim, Homans and Voegtlin. 1910, **1**, 463.
- Venom, An experimental study of the, of the Manchurian scorpion. Kubota. 1918, **11**, 379.
- Cumulative action of cobra. Cushny. 1923, **20**, 233.
- of the Chinese toad, Pharmacological and chemical studies on "senso," the dried. Shimizu. 1916, **8**, 347.
- , On toxicity of the, of the Mexican (Durango) scorpion as compared with that of the Chinese scorpion. Kubota. 1918, **11**, 447.
- , The antitoxic action of rattlesnake serum on rattlesnake, with a note on the percentage of total solids of the serum and bile. Welker and Marshall. 1915, **7**, 125.
- , The toxicity of rattlesnake serum and bile with a note on the effect of bile on the toxicity of. Welker and Marshall. 1914-15, **6**, 563.
- Ventricular efficiency, The effect of drugs on auricular systole and their consequent effect on. Wiggers. (Proceedings) 1916, **8**, 117.
- Veratrine (cevadine) and veratrum viride, The effects of. Studies on the vasomotor centre. XVIII. Pilcher and Sollmann. 1915, **7**, 295.
- , The influence of epinephrine and, on skeletal muscle. Kruse. (Proceedings) 1922, **19**, 266.
- Veratrum, Further observations on the clinical actions of. Collins and Hanzlik. 1918, **11**, 89.
- , Further observations on the clinical actions of. Collins. (Proceedings) 1916, **8**, 128.
- preparations, The bio-assay and variability of. Pilcher. (Proceedings) 1917, **9**, 350.
- viride and cevadine (veratrine), The effects of. Studies on the vasomotor centre. XVIII. Pilcher and Sollmann. 1915, **7**, 295.
- viride, On the action of. With some remarks on the interrelationship of the medullary centres. Cramer. 1915, **7**, 63.
- Verzár, F., and Storm van Leeuwen, W. The sensitiveness to poisons in avitaminous animals. 1921, **18**, 293.
- Viburnum prunifolium, The action of. Hager and Becht. 1919, **13**, 61.
- Vital stains, Some further observations on the relation of, to the tubercle. Lewis. (Proceedings) 1912-13, **4**, 353.

- Vitamine, A comparison of the influence of secretine and the antineuritic, on pancreatic secretion and bile flow. Voegtlin and Myers. 1919, **13**, 301.
- , Experimental mammalian polyneuritis produced by a diet deficient in antineuritic. Voegtlin and Lake. (Proceedings) 1918, **11**, 167.
- Vividdiffusion, On the removal of diffusible substances from the circulating blood of living animals by dialysis. Abel, Rowntree and Turner. 1913-14, **5**, 275
- , On the removal of diffusible substances from the circulating blood of living animals by dialysis. II. Some constituents of the blood. Abel, Rowntree and Turner. 1913-14, **5**, 611.
- Voegtlin, Carl. The action of drugs on oxidative processes. (Proceedings) 1911-12, **3**, 472.
- , The mechanism of the toxic action of the heavy metals on the isolated heart. (Proceedings) 1914-15, **6**, 602.
- , and Bernheim, B. M. The liver in its relation to anaphylactic shock. 1911, **2**, 507.
- , and Bernheim, B. M. The rôle of the portal circulation of the liver in bile formation and jaundice. (Proceedings) 1910-11, **2**, 404.
- , and Bernheim, B. M. The rôle of the portal circulation of the liver in bile formation and jaundice. 1910-11, **2**, 455.
- , Bernheim, B. M., and Homans, John. Anastomosis between the portal vein and the inferior vena cava (Eck's fistula). 1910, **1**, 463.
- , and Dyer, H. A. On the therapeutic efficiency of silver araphenamine sodium. (Proceedings) 1921, **17**, 329.
- , Dyer, H. A., and Miller, D. W. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. (Proceedings) 1922, **19**, 258.
- , Dyer, H. A., and Miller, D. W. Quantitative studies in chemotherapy. VII. Effect of ligation of the ureters or bile duct upon the toxicity and trypanocidal action of arsenicals. 1923, **20**, 129.
- , Hooper, C. H., and Johnson, J. M. Trinitro toluene poisoning. (Proceedings) 1919, **13**, 512.
- , and Lake, G. C. Experimental mammalian polyneuritis produced by a diet deficient in antineuritic "Vitamine." (Proceedings) 1918, **11**, 167.
- , and Lake, G. C. The stimulating action of distilled water on the isolated uterus. (Proceedings) 1917, **9**, 352.
- , and Livingston, A. E. Benzyl alcohol as a spinal anesthetic. (Proceedings) 1919, **13**, 513.
- , and MacCallum, W. G. On the influence of various salts upon tetany following parathyroidectomy. 1910-11, **2**, 421.
- , and Macht, D. I. The action of nitrites and drugs of the digitalis group on the isolated coronary artery. 1913-14, **5**, 77.
- , and Myers, C. N. A comparison of the influence of secretine and the antineuritic vitamine on pancreatic secretion and bile flow. 1919, **13**, 301.
- , and Roth, G. B. Effects of the prolonged feeding of aluminium salts. (Proceedings) 1916, **8**, 132.
- , and Smith, H. W. Quantitative studies in chemotherapy. (Proceedings) 1920, **15**, 233.
- , and Smith, H. W. Quantitative studies in chemotherapy. I. The trypanocidal action of antimony compounds. 1920, **15**, 453.

- Voegtlin, Carl, and Smith, H. W. Quantitative studies in chemotherapy. II. The trypanocidal action of arsenic compounds. 1920, **15**, 475.
- , and Smith, H. W. Quantitative studies in chemotherapy. III. The oxidation of arsphenamine. 1921, **16**, 199.
- , and Smith, H. W. Quantitative studies in chemotherapy. IV. The relative therapeutic value of arsphenamine and neoarsphenamine of different manufacture. 1921, **16**, 449.
- , and Smith, H. W. Quantitative studies in chemotherapy. V. Intravenous versus intramuscular administration of arsphenamine. Curative power and minimum effective dose. 1921, **17**, 357.
- , and Smith, M. I. A method for the study of the permeability of the meninges for arsenicals. (Proceedings) 1921, **17**, 342.
- , and Strouse, S. Studies concerning the iodine-containing principle of the thyroid gland. I. Pharmacological action and therapeutic behavior of diiodotyrosin. 1910, **1**, 123.
- , and Thompson, J. W. Quantitative studies in chemotherapy. VI. Rate of excretion of arsenicals, a factor governing toxicity and parasitocidal action. 1923, **20**, 85.
- , and Thompson, J. W. Rate of excretion of arsenicals. A factor governing toxicity and parasitocidal action. (Proceedings) 1922, **19**, 258.
- , and Towles, Caroline. The treatment of experimental beri-beri with extracts of spinal cord. 1913-14, **5**, 67.
- , and White, G. F. Can adenine acquire antineuritic properties? 1917, **9**, 155.
- , and Wiggers, C. J. The antagonistic action of drugs on the respiratory center. (Proceedings) 1918, **11**, 168.
- Volatile oils, Action of, on isolated intestinal segments. Muirhead and Gerald. 1916, **8**, 253.
- oils, The carminative action of. Gunn. 1921, **16**, 39.
- oils, The effect of carminative, on the muscular movements of the intestine. Plant. 1921, **16**, 311.
- Vomiting center in the dog, The action of morphine on the. Leake. 1923, **20**, 359.
- , Observations on the physiology of. Hatcher and Weiss. (Proceedings) 1922, **19**, 247.
- Von Glahn, W. C., Barbour, H. G., and Maurer, L. L. Paraoxyphenylethylamine as a morphine antagonist. (Preliminary communication). (Proceedings) 1916, **8**, 124.
- von Szent-Györgyi, A., and Storm van Leeuwen, W. On scopolamine-morphine narcosis. 1921, **18**, 449.
- , and Storm van Leeuwen, W. The influence of colloids on the action of non-colloidal drugs. III. 1922, **18**, 257.
- , and Storm van Leeuwen, W. On the influence of colloids on the action of non-colloidal drugs. IV. 1921, **18**, 271.
- , and Storm van Leeuwen, W. On the influence of colloids on the action of non-colloidal drugs. V. A further analysis of the augmentor effect of lecithin on the action of pilocarpine. 1923, **20**, 1.

- Waddell, J. A. Aल्पine, eucaine, holocaine, novocaine and stovaine on the bladder. 1917-18, **10**, 243.
- The effects of strychnine, cocaine, and quinine on the vas deferens. 1917, **9**, 279.
- The pharmacology of the prostate. 1917, **9**, 179.
- The pharmacology of the seminal vesicles. 1917, **9**, 113.
- The pharmacology of the uterus masculinus. 1917, **9**, 171.
- The pharmacology of the vagina. 1917, **9**, 411.
- Pharmacology of the vas deferens. 1916, **8**, 551.
- Wallace, G. B. Chronic chloral poisoning. (Proceedings) 1911-12, **3**, 462.
- , and Myers, H. B. Uranium glycosuria. (Proceedings) 1913-14, **5**, 511.
- , and Myers, H. B. Vascular reactions in poisoning with diphtheria toxin. (Proceedings) 1914-15, **6**, 601.
- Waller gas balance, The calibration of the, and the Connell anethetometer. Boothby and Sandiford. 1913-14, **5**, 369.
- Walters, A. L., Baker, W. F., and Koch, E. W. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. III. Studies on protozoöcidal and bactericidal action. 1917-18, **10**, 341.
- , Eckler, C. R., and Koch, E. W. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. II. Studies on emetic effect and irritant action. 1917-18, **10**, 185.
- , and Koch, E. W. Pharmacological studies of the ipecac alkaloids and some synthetic derivatives of cephaeline. I. Studies on toxicity. 1917-18, **10**, 73.
- Watanabe, W. K., and Crawford, A. C. Does the pituitary gland contain epinephrine or a compound similar to it? 1916, **8**, 75.
- Water content of the blood, Relation of the dextrose and, to antipyretic drug action. Barbour and Herrmann. 1921, **18**, 165.
- diuresis, The effect of, on the elimination of certain urinary constituents. Carr. 1921, **18**, 221.
- Weed, Lewis, H., and Wegeforth, Paul. Experimental irrigation of the subarachnoid space. 1919, **13**, 317.
- Wegeforth, H. M., and Wegeforth, Paul. Observations on the effect of ipecac in the treatment of infectious enterohepatitis (blackhead) in turkeys. 1921, **17**, 249.
- Wegeforth, Paul, and Essick, C. R. The effect of subarachnoid injections of antiseptics upon the central nervous system. 1919, **13**, 335.
- , and Weed, Lewis H. Experimental irrigation of the subarachnoid space. 1919, **13**, 317.
- , and Wegeforth, H. M. Observations on the effect of ipecac in the treatment of infectious enterohepatitis (blackhead) in turkeys. 1921, **17**, 249.
- Weidenthal, C. M., and Hanzlik, P. J. The hemostatic properties of thromboplastic agents under different conditions. 1920, **14**, 189.
- , and Hanzlik, P. J. The plasma and blood clotting efficiency of thromboplastic agents in vitro and their stability. 1920, **14**, 157.
- , and Hanzlik, P. J. The salicylates. XI. The stability and destruction of the salicyl group under biological conditions. 1920, **14**, 25.
- Weil, Richard. Anaphylatoxin, and the chemical theory of anaphylactic shock. (Proceedings) 1916, **8**, 112.

- Weiland, A. H., Luckhardt, A. B., Koch, F. C., and Schroeder, W. F. The physiological action of the fumes of iodine. 1920, **15**, 1.
- Weir, J. F., Larson, E. E. and Rowntree, L. G. Clinical and experimental studies in diabetes insipidus. (Proceedings) 1921, **17**, 333.
- Weiss, Soma and Hatcher, Robert. Observations on the physiology of vomiting. (Proceedings) 1922, **19**, 247.
- , and Hatcher, R. A. Studies on strychnine. 1922, **19**, 419.
- Welker, W. H., and Marshall, John. The antitoxic action of rattlesnake serum on rattlesnake venom with a note on the percentage of total solids of the serum and bile. 1915, **7**, 125.
- , and Marshall, John. Toxicity of rattlesnake serum and bile with a note on the effect of bile on the toxicity of venom. 1914-15, **6**, 563.
- Wenyon, O. M., and Pyman, F. L. The action of certain emetine derivatives on amoebae. 1917-18, **10**, 237.
- Werness, I., and MacCraken, W. H. A device for overcoming clotting during direct blood pressure experiments. 1917, **9**, 305.
- Wesselhoeft, Conrad, and Pratt, J. H. Pharmacological activity of digitalis preparations. (Proceedings) 1916, **8**, 118.
- Wetzel, N. C., and Hanzlik, P. J. The salicylates. XI. The stability and destruction of the salicyl group under biological conditions. 1920, **14**, 25.
- , and Hanzlik, P. J. The salicylates. XII. The excretion of salicyl after the administration of methyl salicylate to animals. 1920, **14**, 43.
- , and Sollmann, Torald. Iodine absorption from the human skin. 1920, **15**, 169.
- , Sollmann, Torald, and Schettler, O. H. Studies of chronic intoxications on albino rats. I. Organization of the investigations. 1921, **16**, 273.
- , Sollmann, Torald, and Schettler, O. H. Studies of chronic intoxications on albino rats. IV. Fluoride, chloride and calcium, including sodium fluoride sodium chloride, "phosphate rock," calcium phosphate (precipitated) and calcium carbonate (precipitated). 1921, **17**, 197.
- Whelan, Julia, Leonard, C. S., and Loevenhart, A. S. The toxicological action of azulene. (Proceedings) 1921, **17**, 346.
- White corpuscles, On the non-influence of rise in body temperature induced by drugs upon the protein quotient and the enumeration of. Hill. 1919, **12**, 1.
- mustard seed, An explanation of the laxative action of. van Leersum. 1916, **8**, 285.
- White, G. F., and Voegtlin, Carl. Can adenine acquire antineuritic properties? 1917, **9**, 155.
- White, S. M., and Morris, R. E. Studies with American grown digitalis and digitalis lutea. (Proceedings) 1918, **11**, 184.
- Wiggers, C. J. Effect of drugs on auricular systole and their consequent effect on ventricular efficiency. (Proceedings) 1916, **8**, 117.
- , The action of adrenaline on the pulmonary vessels. 1910, **1**, 341.
- , The modifying influence of anemia on the actions of some well-known drugs. (Proceedings) 1910-11, **2**, 395.
- , and Voegtlin, Carl. The antagonistic action of drugs on the respiratory center. (Proceedings) 1918, **11**, 168.

- Wilde, A. G., and Eyster, J. A. E. The action of urea and of hypertonic solutions on the heart and circulation. 1910, **1**, 391.
- Williams, A. W., and Koch, W. The relation of brain phosphatides to tissue metabolites. 1910-11, **2**, 253.
- Williams, H. W., and Barbour, H. G. The effects of chlorine upon isolated bronchi and pulmonary vessels. 1920, **14**, 47.
- Williams, J. W., and Marshall, E. K., Jr. The toxicity and skin irritant effect of certain derivatives of dichloroethylsulfide. 1921, **16**, 259.
- Williams, W. R. Apparatus for recording the outflow of liquids. 1910, **1**, 457.
- Wilson, F. N., and Robinson, G. C. A quantitative study of the effect of digitalis on the heart of the cat. 1917-18, **10**, 491.
- Wing, E. S., and Barbour, H. G. I. The direct application of drugs to the temperature centers. 1913-14, **5**, 105.
- Winton disease, On the action of Senecio alkaloids and the causation of hepatic cirrhosis of cattle. Cushny. 1910-11, **2**, 531.
- Wise, L. E., and Salant, William. Fate of sodium citrate in the body. (Proceedings) 1916, **8**, 123.
- Witherbee, W. D., and Auer, John. On decreasing the reaction of normal skin to destructive doses of x-rays by pharmacological means, and on the mechanism involved. (Proceedings) 1921, **17**, 337.
- Woelfel, A., and Carlson, A. J. The solubility of lead sulphide ores and of lead sulphide in human gastric juice. 1913-14, **5**, 549.
- Wood, H. C., Jr. The biological and chemical assay of ergot. (Proceedings) 1910, **1**, 574.
- . The vaso-motor supply of the lungs. (Proceedings) 1910-11, **2**, 394.
- Wood, W. G., and Richards, A. N. The action of strophanthine upon suprarenal secretion. 1914-15, **6**, 283.
- Woodward, H. E., and Alsberg, C. L. A comparison of the effect of certain saponins on the surface tension of water with their hemolytic power. 1921, **16**, 237.
- , and Alsberg, C. L. Relation of the surface tension of saponin solutions to their hemolytic activity. (Proceedings) 1916, **8**, 109.
- Wright, K. D., Hooper, C. W., and Kolls, A. C. Quantitative pathological studies with arsenic compounds. I. The influence of fasting and various diets on arsphenamine poisoning and the comparative toxicity of arsphenamine, neoarsphenamine and para-oxy-meta-amino-phenylarsenoxide. 1921, **18**, 133.
- X-rays, On decreasing the reaction of normal skin to destructive doses of, by pharmacological means, and on the mechanism involved. Auer and Witherbee. (Proceedings) 1921, **17**, 337.
- Yabe, S. The action of diphtheria toxin upon the circulation. 1922, **19**, 1.
- Yamada, S. S., and Oliver, Jean. Biological reactions of arsphenamine. II. The protective action of hydrophilic colloids on the agglutination of red blood cells by arsphenamine. 1922, **19**, 199.
- , and Oliver, Jean. Biological reactions of arsphenamine. III. Its immediate toxicity as contrasted with its late ill effects and the rôle of agglutination in the production of the former. 1922, **19**, 393.

Yanagawa, H. On the secretion of lymph. 1917, **9**, 75.

—. On the vaso-constrictive action of serum on the coronary vessels of the mammalian heart. 1916, **8**, 89.

• Yohimbine, The action of, on reproductivity. Rumry. (Proceedings) 1918, **11**, 172.

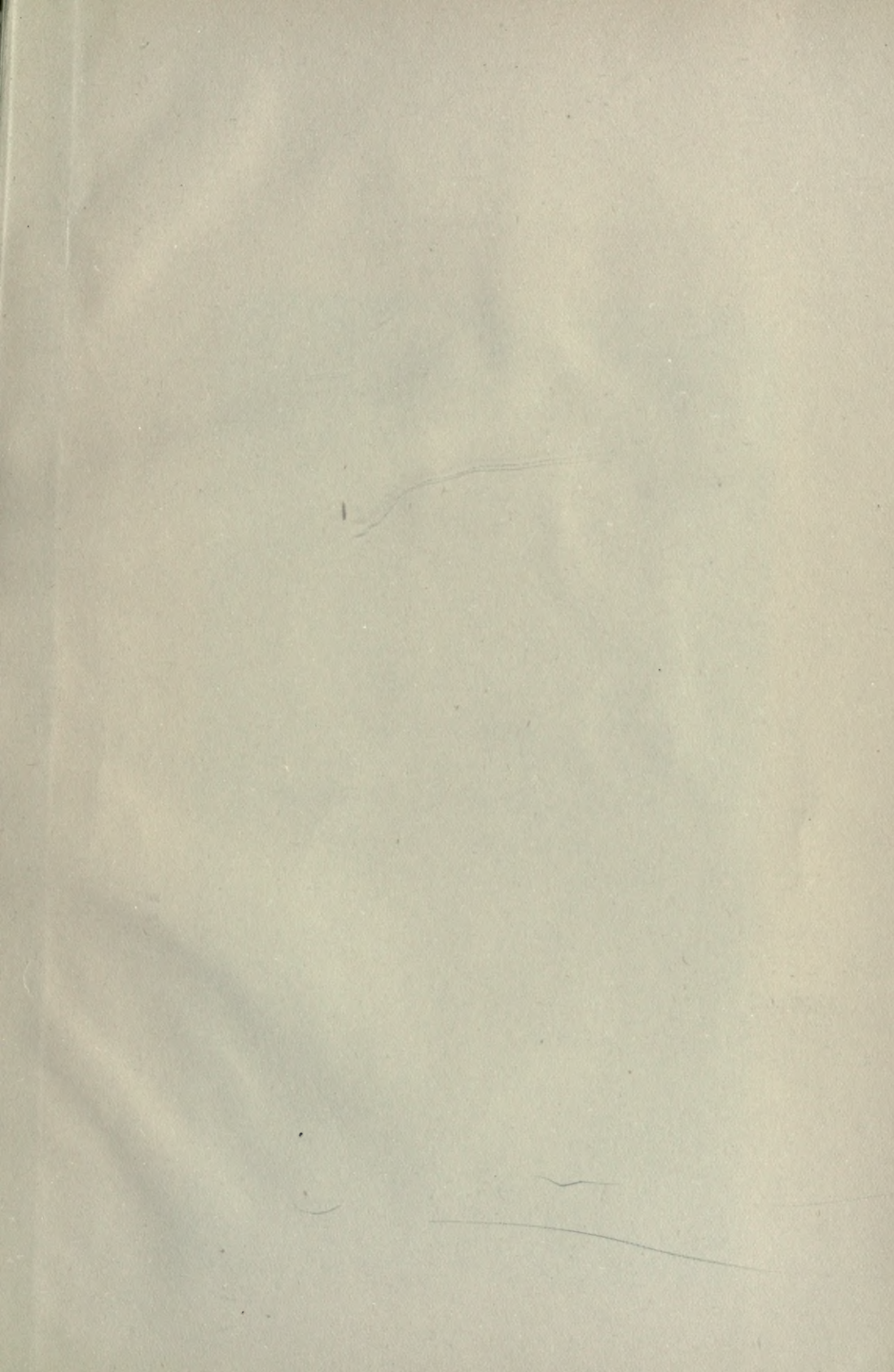
Zeijdner, J., and Storm van Leeuwen, W. On the influence of colloids on the action of non-colloidal drugs. II. 1921, **17**, 121.

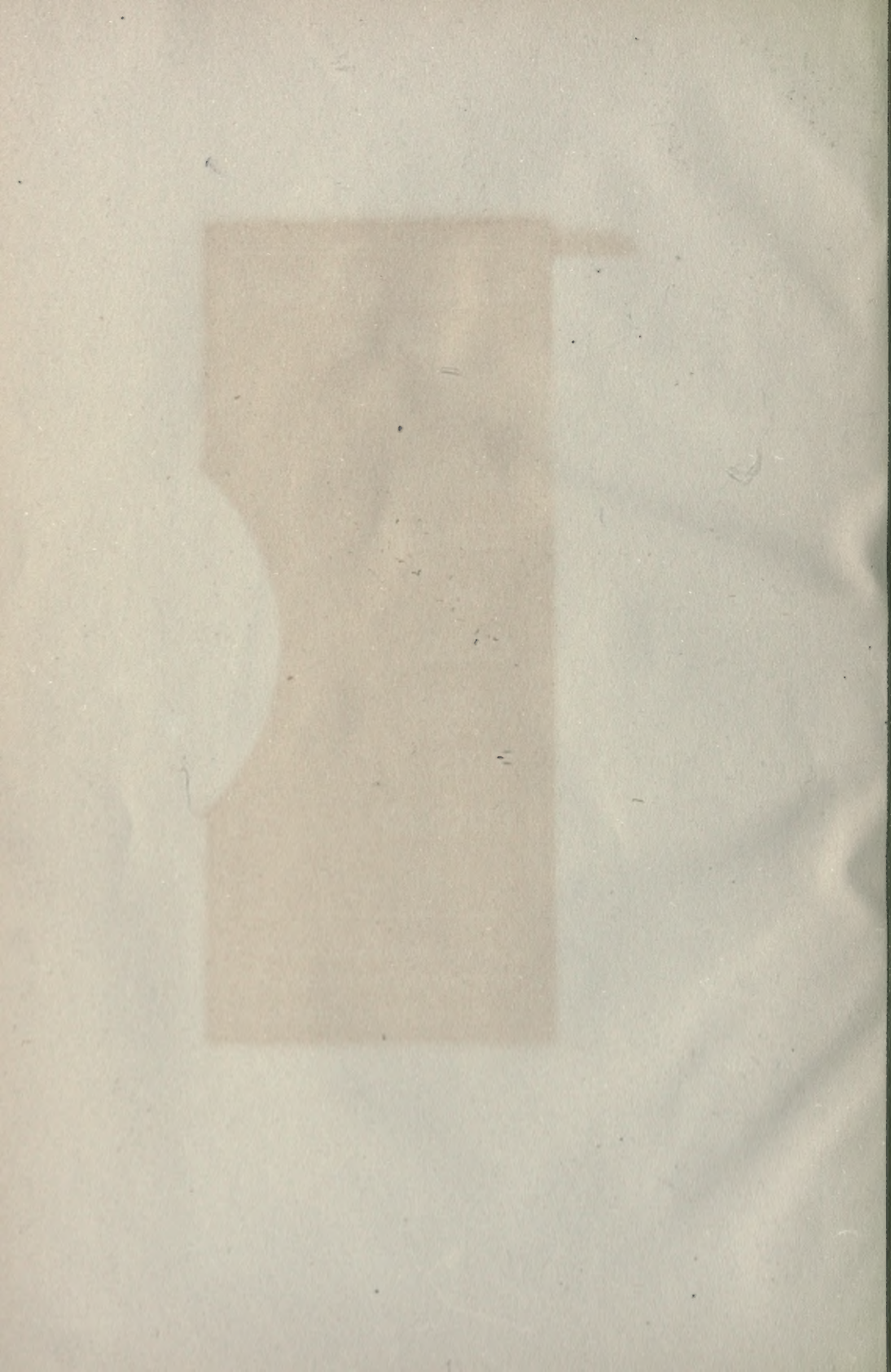
Zinc, Production of glycosuria by. Salant and Kahn. (Proceedings) 1913-14, **5**, 512.

—, The comparative toxicity and physiological activity of cadmium and. Alsborg and Schwartze. (Proceedings) 1920, **15**, 235.

Zulick, H. S. The effect of homatropine on the vagus. 1914-15, **6**, 473.

Zunz, Edgard, and Tysebaert, Jacques. On the action of atropine sulphate on the isolated stomach and bowel of the dog. 1916, **8**, 325.





RM

1

J6

Index

v.1-20

cop.2

Biological
& Medical
Serials

The Journal of pharmacology
and experimental thera-
peutics

PLEASE DO NOT REMOVE
CARDS OR SLIPS FROM THIS POCKET

UNIVERSITY OF TORONTO LIBRARY
